
MANUFACTURES.

MANUFACTURES IN 165 CITIES.

These tables present the statistics of manufactures in the 165 cities of the United States having a population of 20,000 and over, according to the census of 1890, the respective cities being arranged in alphabetical order. With the exception of mining and quarrying, which are shown in the report on Mineral Industries, these tables include every establishment of mechanical and manufacturing industry which was returned in these cities at the Eleventh Census as having a product valued at \$500 or more during the census year. So far as practicable, the operations of each establishment have been credited to the locality in which the works were situated.

The act of Congress approved March 1, 1889, providing for taking the Eleventh Census, directs the Superintendent of Census to investigate and ascertain the statistics of the manufacturing industries of the country. Enumerators appointed under the provisions of that act were charged with the duty of personally visiting every establishment of productive industry in their respective districts (with certain exceptions hereafter noted) to obtain a distinct report from each establishment while engaged in the work of enumerating the population and the products of agriculture. The law required this work to be completed in 30 days.

By virtue of the authority conferred by section 18 of the same act, the collection of statistics of productive industry in certain localities was withdrawn from the enumerators and assigned to special agents, who entered upon duty as soon as practicable after the completion of the count of the people.

The instructions issued by this office to enumerators and special agents with respect to the collection of statistics of manufactures were in part as follows:

It shall be their duty to visit personally every establishment of productive industry in their respective districts (except as noted) and to obtain the required information in the case of each manufacturing establishment.

The term "establishment of productive industry" must be understood in its broadest sense to embrace not only mills and factories but also the operations of all small establishments and the mechanical trades.

Restaurants, saloons, barber shops, the compounding of individual prescriptions by druggists and apothecaries, the operation of mercantile establishments, transportation corporations and lines, and professional services (except mechanical dentistry) are not considered as coming within the meaning of the law in this connection.

Great care must be taken by special agents and enumerators to guard against the omission from their returns of any establishment that comes properly within the scope of this investigation. They should have their eyes open to every indication of the presence of productive industry, and should supplement personal observation by frequent and persistent inquiry.

A large number of reports were received from dentists. These returns purported to represent only the mechanical work, but it was evident that in many cases operative dentistry had been included. This fact, combined with the strenuous objection on the part of the profession to give any information whatever of the character required by the census schedule, on the ground that the census law did not seek to secure the returns for professional services, caused the office to discontinue its efforts to obtain further reports for the mechanical branch of the profession. The statistics published are those which were secured prior to the objection referred to.

It was found impracticable to make a complete canvass of the entire United States for the collection of statistics pertaining to the generation of electricity for lighting and power purposes. The data concerning this industry are, therefore, confined to the state of New York, the city of St. Louis, Mo., and the District of Columbia.

In some cases the office experienced difficulty in securing reports, and it was found necessary to close the canvass without obtaining returns from a few establishments. The establishments thus neglecting to comply with the requirements of the law are, with but few exceptions, unimportant, and their omission from the tables can have but slight effect on the totals. It is believed that the data constitute a substantially correct presentation of the manufacturing industries of the respective cities during the census year of 1890. In cases where the totals for the respective cities show a decrease when compared with the reports of the Tenth Census, a special investigation has been made to verify the accuracy of the canvass.

Radical changes have been made in 1890 both in the form and scope of the inquiry and in the method of collecting the data.

No previous census of the United States obtained so complete reports regarding such trades as masonry, carpentering, blacksmithing, cooperage, painting, plumbing, and similar trades using machinery to a limited extent.

Previous census inquiries omitted the following industries: bottling; cars and general shop construction and repairs by steam railroad companies; china, decorating; clothing, women's, dressmaking; coffins and burial cases, trimming and finishing; cotton, cleaning and rehandling; cotton, ginning; cotton waste; drug grinding; druggists' preparations, not including prescriptions; gas, illuminating and heating; hay and straw, baling; millinery, custom work; petroleum, refining. (Petroleum, refining, formed part of a separate report at the census of 1880, and the statistics were not included in the report on manufactures.) The inclusion of these industries in the Eleventh Census, together with the changes referred to, renders it impracticable to use the data for 1880 as a basis for comparison without carefully taking these facts into consideration, or to make correct computations of percentages of increase or decrease during the decade.

"Capital" purports to comprehend all the property or assets strictly pertaining to a manufacturing business, whether such property be owned, borrowed, or hired. The amount reported under the head of "Hired property" represents the value of property held in tenancy and used for manufacturing purposes; it is presented in a separate column, and not included in the total of "Direct investment". This item was reported only partly, if at all, prior to the census of 1890, and it should be omitted in making comparisons. The value of hired property is necessarily to some extent an estimate. The amount is frequently supplied by the manufacturer when preparing the report, but when not so reported it is estimated by this office on the basis of the information furnished by other returns, or by the agents who made the canvass. The amount reported as paid by the manufacturer as rent for this class of capital is included in the column of "Miscellaneous expenses".

The inquiry at the Tenth Census concerning capital was not uniform. It was usually as follows: "Capital (real and personal) invested in the business." The schedules, however, for some of the principal industries required a separate statement as to the value of buildings and machinery.

Previous census reports show no items entering into the cost of manufacture other than the amounts paid for wages and materials. The present inquiry was intended to cover, as far as possible, the cost of production. With this end in view a series of questions pertaining to "Miscellaneous expenses" was included in the schedule. Under this head are included all the expenses of manufacture not reported under wages and materials, except the depreciation of plant. The amount paid to contractors for work performed is also embraced under this head. The data supplied in the reports relating

to depreciation of manufacturing plants in the respective industries are not sufficient to form a basis for correct computation, and therefore are omitted from these tables.

These statistics do not furnish reliable data for ascertaining the net profits of manufacturers. The inquiry conducted by this office was intended to ascertain only the relations which capital, wages, cost of materials, and miscellaneous expenses bear to the value at the works of the product of manufacturing industry, excluding all expenses pertaining to the mercantile portion of the business, and making no allowance for depreciation of plant.

The individual returns were classified according to the product of chief value, and some of the differences which will appear upon comparison of these data with corresponding classes reported at the census of 1880 are due to the changes in classification.

Great care has been exercised in assigning the individual reports to the different classes, and copious cross references are made in the case of those general classes in which the minor products are common. When different branches of the same industry follow immediately in alphabetical order these cross references have been omitted.

When two or more establishments owned by the same corporation, firm, or individual are located in the same county or city and engaged in the same industry, they are tabulated and counted as one establishment.

The form of inquiry used at the Eleventh Census respecting employés and wages was intended to comprehend all classes of employés in the industrial establishments of the country. It called for the number of officers or members of firms. Clerical labor is embraced by distinct classification. Wage workers proper are divided into two classes: first, operatives, engineers, and other skilled workmen, overseers, or foremen, or superintendents (not including general superintendents or managers); second, watchmen, laborers, teamsters, and other unskilled workmen. Pieceworkers were reported as a separate class. The question heretofore has not been uniform; it generally called for the "greatest number of hands employed at any one time during the year", also "the average number of hands employed", without designating the different classes of employés.

The tables present the number of establishments reported, and show only the totals of hired property and direct investment (the two taken together constituting capital); miscellaneous expenses; employés (classified as officers, firm members, and clerks; operatives, and pieceworkers) and wages; cost of materials used, and value of products, as compiled from the reports of individual manufacturers. For details concerning the respective items, reference is made to the final report on manufactures.

Table 1 gives a summary by cities for all classes of manufacture. Table 2 gives a separate total for each industry in each city, reports from which were received for 3 or more establishments. Industries in which less than 3 establishments were engaged are grouped under "All other industries", in order that the operations of individual establishments may not be disclosed.

In addition to the reports tabulated and presented some returns were received for the industrial operations of the municipal governments of cities, also for the manufacturing operations of penal, reformatory, and charitable institutions. These manufacturing enterprises are conducted under conditions essentially different from those which prevail in the case of individuals or private corporations, and they are therefore omitted from the tables.

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE I.—SUMMARY OF MANUFACTURES IN 165 CITIES

[“DIRECT INVESTMENT” includes land; buildings; machinery, tools, and implements; raw materials; stock in process and taxes (including internal revenue); insurance; repairs, ordinary, of buildings and machinery; amount paid contractors; interest of power and heat, and mill supplies.]

	CITIES.	Number of establishments reporting	CAPITAL.		Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.		
			Value of hired property.	Direct investment.		Aggregates.		
						Average number.	Total wages.	
	Total	186,147	\$833,173,008	\$3,996,705,784	\$154,844,850	2,907,882	\$1,567,444,001	
1	Akron, Ohio	350	724,312	14,237,429	977,471	6,390	3,206,214	
2	Albany, N. Y.	1,305	3,589,739	17,270,705	1,909,304	15,041	7,980,378	
3	Allegheny, Pa.	675	2,433,935	22,253,243	1,728,571	13,063	7,081,529	
4	Allentown, Pa.	382	723,864	6,977,001	532,875	5,833	2,313,508	
5	Altoona, Pa.	208	593,305	7,935,423	241,121	6,561	3,084,096	
6	Atlanta, Ga.	410	976,274	9,508,962	987,023	8,084	3,809,955	
7	Auburn, N. Y.	258	1,141,414	11,123,238	1,339,705	6,166	2,628,365	
8	Augusta, Ga.	440	655,915	7,770,688	526,539	6,294	2,063,189	
9	Baltimore, Md.	5,265	16,658,875	92,723,677	8,771,869	83,745	35,914,854	
10	Bay city, Mich.	331	482,853	3,054,415	518,771	4,696	2,006,052	
11	Binghamton, N. Y.	704	1,606,149	9,058,051	907,357	10,101	4,349,162	
12	Birmingham, Ala.	283	885,620	4,553,478	545,290	3,014	2,003,606	
13	Bloomington, Ill.	188	333,974	2,874,141	228,532	2,524	1,261,045	
14	Boston, Mass.	7,942	55,800,301	118,198,539	21,543,956	90,805	55,125,872	
15	Bridgeport, Conn.	559	2,004,040	19,786,572	1,442,378	13,131	7,568,013	
16	Brockton, Mass.	537	1,571,421	7,772,452	1,136,445	11,192	6,600,165	
17	Brooklyn, N. Y.	10,583	31,877,420	161,730,500	15,743,104	109,292	65,247,119	
18	Buffalo, N. Y.	3,565	10,526,219	70,707,145	7,489,363	51,433	25,495,833	
19	Burlington, Iowa.	223	492,849	3,963,886	259,615	3,264	1,424,178	
20	Cambridge, Mass.	1,292	3,036,373	20,331,585	2,370,252	14,258	7,759,813	
21	Camden, N. J.	658	2,073,188	15,244,506	769,452	10,302	5,557,580	
22	Canton, Ohio.	420	437,150	11,387,406	952,010	7,053	3,780,753	
23	Charleston, S. C.	560	996,537	7,345,459	461,172	5,504	2,326,078	
24	Chattanooga, Tenn.	294	570,305	7,405,646	969,518	5,741	2,740,887	
25	Chelsea, Mass.	347	1,048,968	7,028,356	547,110	3,470	1,884,002	
26	Chester, Pa.	201	496,600	9,397,033	608,831	6,850	3,104,040	
27	Chicago, Ill.	9,977	72,716,480	359,739,598	43,235,427	210,366	123,955,001	
28	Cincinnati, Ohio.	7,832	31,036,526	104,488,032	19,937,152	96,080	47,601,332	
29	Cleveland, Ohio.	2,307	8,217,104	69,732,761	4,902,256	50,674	28,355,505	
30	Cohoes, N. Y.	212	1,620,764	11,275,187	741,435	8,939	3,155,950	
31	Columbus, Ohio.	708	2,600,182	16,178,703	1,715,056	13,421	6,865,988	
32	Council Bluffs, Iowa.	128	260,855	1,292,283	92,886	1,614	822,682	
33	Covington, Ky.	1,308	1,711,012	6,897,380	1,026,579	7,602	4,232,019	
34	Dallas, Tex.	312	999,410	5,250,118	595,257	4,082	2,520,630	
35	Davenport, Iowa.	475	1,031,850	8,732,122	780,201	5,136	2,214,002	
36	Dayton, Ohio.	937	1,734,320	13,469,864	1,450,655	12,047	5,900,719	
37	Denver, Colo.	782	4,750,012	16,811,868	1,340,668	10,613	8,377,520	
38	Des Moines, Iowa.	330	1,269,963	3,877,140	442,162	3,935	2,068,359	
39	Detroit, Mich.	1,746	7,854,178	45,041,167	5,047,307	38,178	18,900,309	
40	Dubuque, Iowa.	262	609,275	7,016,802	564,377	4,657	2,133,880	
41	Duluth, Minn.	278	912,945	5,332,447	412,496	3,752	2,098,693	
42	Elizabeth, N. J.	190	453,268	7,785,553	371,214	6,561	3,727,972	
43	Elmira, N. Y.	539	919,702	6,895,180	598,070	5,171	2,504,606	
44	Erie, Pa.	236	563,811	12,812,594	718,157	7,029	3,828,438	
45	Evansville, Ind.	482	1,041,705	9,166,850	804,871	7,435	3,197,928	
46	Fall River, Mass.	397	1,150,755	37,198,470	2,063,045	23,542	8,775,722	
47	Fitchburg, Mass.	323	683,045	7,563,522	746,602	5,497	2,779,544	
48	Fort Wayne, Ind.	225	719,081	6,939,600	307,989	6,011	2,676,316	
49	Fort Worth, Tex.	316	516,484	3,184,032	286,452	2,743	1,947,148	
50	Galveston, Tex.	180	681,510	5,122,612	405,270	1,932	1,241,299	
51	Gloucester, Mass.	206	440,650	2,703,284	156,608	1,719	864,546	
52	Grand Rapids, Mich.	869	1,883,111	15,945,947	1,289,458	13,282	6,510,749	
53	Harrisburg, Pa.	475	1,254,273	6,716,074	428,757	6,898	3,367,941	
54	Hartford, Conn.	513	2,608,000	14,126,282	886,428	9,021	5,524,618	
55	Haverhill, Mass.	734	3,220,880	8,084,272	1,777,142	15,201	6,932,030	
56	Hoboken, N. J.	289	1,047,270	3,048,782	228,743	3,847	2,264,236	
57	Holyoke, Mass.	493	1,445,172	24,411,930	1,689,226	13,189	6,197,923	
58	Houston, Tex.	210	603,715	3,509,434	313,114	3,009	1,047,478	
59	Indianapolis, Ind.	1,189	3,724,495	15,266,685	2,080,733	18,061	8,854,812	
60	Jackson, Mich.	220	588,356	4,979,444	337,634	3,630	1,415,166	
61	Jersey city, N. J.	726	4,772,898	18,165,094	1,893,026	12,869	7,808,270	
62	Johnstown, Pa.	113	159,570	13,280,206	789,343	5,645	3,131,501	
63	Joliet, Ill.	271	441,582	9,418,932	551,539	3,183	1,982,558	
64	Kansas city, Kan.	234	367,865	11,620,703	3,243,969	7,333	4,107,373	
65	Kansas city, Mo.	1,478	4,974,291	14,104,620	1,901,313	14,757	9,448,696	

MANUFACTURES.

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HAVING A POPULATION OF 20,000 AND OVER: 1890.

finished products on hand; cash and bills and accounts receivable. "MISCELLANEOUS EXPENSES" include rent for tenancy; paid on cash used in the business, and all sundries not elsewhere reported. "COST OF MATERIALS USED" includes fuel; rent

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.				Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Officers, firm members, and clerks.		Operatives, skilled and unskilled.					
Number.	Wages.	Number.	Wages.				
297,223	\$284,921,487	2,085,069	\$1,065,636,494	525,590	\$216,886,020	\$3,303,177,034	\$0,278,338,476
587	513,009	4,649	2,114,282	1,154	579,023	6,928,481	12,550,638
2,030	1,789,079	10,290	5,092,329	2,721	1,088,970	11,773,241	25,581,480
1,206	1,165,004	10,511	5,408,402	1,346	508,123	14,231,758	26,878,979
540	402,626	3,905	1,489,385	1,388	421,497	5,102,011	8,876,565
345	243,798	3,701	1,096,068	2,515	1,744,230	6,133,222	10,497,019
727	603,670	7,271	2,052,653	686	253,032	5,914,571	13,074,037
445	407,601	4,320	1,052,742	1,401	567,932	3,783,971	9,634,785
580	373,248	5,136	1,526,008	578	163,843	5,430,871	9,244,850
7,256	6,019,354	51,982	23,009,957	24,527	6,885,543	73,770,001	141,723,599
493	429,393	3,850	1,426,674	353	150,985	5,043,587	9,069,342
1,013	841,978	7,454	3,028,823	1,724	478,361	7,659,007	15,040,152
367	340,384	3,025	1,554,092	222	109,220	3,508,588	7,034,248
323	253,050	1,871	868,738	330	139,257	2,025,940	4,081,001
12,320	11,217,435	65,557	38,217,716	12,919	5,690,721	105,602,569	210,936,616
1,015	1,185,810	8,849	4,933,755	3,276	1,447,348	10,428,987	22,274,635
875	853,841	5,112	2,992,808	5,205	2,753,516	11,211,411	21,070,069
15,088	14,229,759	77,669	44,541,231	16,535	6,476,120	151,060,710	268,244,147
5,522	4,928,064	37,547	17,576,157	8,384	2,991,612	54,120,611	106,052,208
329	266,764	2,543	981,122	392	176,202	3,099,200	5,413,188
1,677	1,261,850	10,021	5,412,974	2,569	1,084,080	20,268,534	35,975,089
918	798,308	7,338	3,938,200	2,106	820,982	11,816,151	21,145,637
693	572,112	4,722	2,298,717	1,038	909,924	4,948,508	11,881,810
820	546,289	4,224	1,610,315	460	109,474	4,753,396	9,005,421
511	500,364	4,924	2,141,000	276	105,523	4,937,902	10,216,109
403	499,057	2,258	1,116,752	719	268,193	4,681,291	8,158,207
291	206,708	5,730	2,411,680	829	305,652	6,844,825	11,864,809
19,745	19,885,079	165,849	91,504,678	24,772	12,565,244	409,493,027	664,567,923
12,522	14,002,821	61,856	30,235,321	22,311	6,493,180	92,545,231	190,003,983
4,759	4,847,565	37,982	20,221,479	7,933	3,286,461	65,645,649	113,240,115
298	274,027	6,146	2,107,914	2,495	774,009	5,739,987	10,836,260
1,308	1,207,892	9,496	4,484,215	2,557	1,173,881	11,183,710	22,887,586
145	120,959	1,401	651,226	68	50,407	1,272,916	2,527,388
1,401	1,275,756	5,161	2,611,805	950	344,458	8,228,079	15,899,575
528	505,270	3,099	1,744,920	465	270,449	4,354,709	9,054,700
675	573,507	3,290	1,317,001	1,171	323,404	6,098,349	10,857,232
1,433	1,163,336	8,512	3,932,882	2,102	804,501	11,686,149	22,446,572
1,330	1,723,935	8,876	6,381,080	407	272,505	14,216,540	29,240,747
515	437,252	3,267	1,582,728	153	48,379	4,498,377	7,931,272
8,643	3,410,138	28,207	12,758,730	6,328	2,731,441	41,300,058	77,351,546
459	418,004	3,649	1,517,774	549	108,102	5,984,431	9,894,800
437	348,116	3,243	1,692,790	72	57,787	5,435,054	8,811,723
293	370,624	5,037	3,221,737	331	129,011	4,511,026	10,489,304
839	680,041	3,572	1,601,092	760	282,573	4,593,241	8,844,930
506	580,072	5,418	2,735,585	1,045	512,781	6,145,689	12,705,769
620	533,131	5,587	2,187,626	1,228	477,171	6,875,575	12,809,334
555	562,677	22,406	8,002,806	581	150,179	17,685,071	32,510,281
418	382,733	4,691	2,150,239	388	240,572	6,414,105	11,225,030
367	294,702	4,247	1,854,040	1,307	527,514	5,048,585	9,301,948
375	329,075	2,324	1,589,351	44	28,222	3,435,446	6,826,083
253	279,206	1,500	863,897	179	92,196	3,253,088	5,724,545
156	112,065	1,089	506,288	474	185,293	3,220,601	4,851,405
1,413	1,231,132	10,347	4,633,342	1,522	610,275	9,391,615	19,851,181
584	420,650	5,826	2,821,025	488	125,366	5,432,303	10,588,444
710	695,080	7,238	4,232,423	1,073	597,005	7,904,936	17,104,318
1,063	885,056	4,437	2,418,793	9,681	3,678,776	13,035,869	25,394,530
365	364,608	2,800	1,867,186	83	32,442	3,585,921	7,151,391
834	872,988	10,600	4,708,628	1,615	616,312	13,574,788	20,080,316
298	293,850	2,440	1,242,112	271	111,516	3,638,205	6,832,943
2,034	1,734,756	12,554	5,871,841	3,473	1,188,215	21,247,110	36,426,974
372	266,509	2,159	863,891	1,099	204,766	2,782,040	5,376,347
1,457	1,564,388	10,277	5,676,984	1,135	566,898	23,206,834	37,376,922
276	251,932	5,339	2,868,089	30	11,480	13,187,331	18,422,980
317	259,016	2,762	1,662,211	104	.61,301	8,884,684	12,732,933
478	440,084	5,973	3,243,489	882	423,800	34,236,037	44,070,389
2,146	2,003,370	10,996	6,613,999	1,615	831,327	16,301,184	31,936,366

TABLE I.—SUMMARY OF MANUFACTURES IN 165 CITIES

CITIES.	Number of estab- lishments reporting	CAPITAL.		Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES.		
		Value of hired property.	Direct invest- ment.		Aggregates.		
					Average number.	Total wages.	
66 Kingston, N. Y.	198	\$262,935	\$3,251,835	\$323,553	2,430	\$1,106,678	
67 Knoxville, Tenn.	295	638,468	3,045,661	261,707	3,113	1,662,501	
68 Lacrosse, Wis.	206	250,050	10,039,872	703,625	4,127	1,657,725	
69 Lancaster, Pa.	509	1,097,170	7,691,314	601,291	8,179	2,710,262	
70 Lawrence, Mass.	583	1,508,786	23,226,806	1,958,386	16,276	6,723,383	
71 Lewiston, Me.	214	489,541	8,324,231	635,894	7,373	2,686,189	
72 Lexington, Ky.	183	441,325	1,610,830	124,915	1,545	816,692	
73 Lincoln, Neb.	182	681,215	2,360,454	260,742	1,921	1,161,740	
74 Lincoln, R. I.	149	250,975	7,677,864	388,222	4,921	1,959,665	
75 Little Rock, Ark.	124	412,631	2,265,324	254,227	1,534	830,857	
76 Long Island city, N. Y.	325	1,028,062	12,823,594	496,023	4,601	3,066,132	
77 Los Angeles, Cal.	750	1,919,240	6,811,488	680,897	4,957	3,468,608	
78 Louisville, Ky.	1,700	5,044,539	36,086,985	6,250,230	27,198	12,372,871	
79 Lowell, Mass.	553	3,264,712	41,911,708	4,150,844	29,155	11,243,302	
80 Lynn, Mass.	1,369	5,324,930	17,919,025	2,045,531	22,452	12,777,174	
81 McKeesport, Pa.	118	166,896	10,979,812	737,562	6,292	3,436,539	
82 Macon, Ga.	203	499,000	3,988,900	219,988	3,417	1,242,902	
83 Malden, Mass.	295	430,060	7,600,124	408,174	4,769	2,384,177	
84 Manchester, N. H.	366	1,946,028	22,124,068	1,072,875	15,351	5,950,244	
85 Memphis, Tenn.	345	1,953,734	9,357,821	813,351	6,118	3,158,075	
86 Meriden, Conn.	238	823,525	13,712,146	1,460,571	7,670	4,202,602	
87 Milwaukee, Wis.	2,879	8,374,507	69,145,814	8,285,410	43,423	20,646,717	
88 Minneapolis, Minn.	2,723	7,525,830	42,643,764	3,682,928	27,702	15,254,175	
89 Mobile, Ala.	261	686,889	2,236,318	226,387	3,013	1,169,353	
90 Montgomery, Ala.	138	386,750	1,684,271	140,829	1,806	787,259	
91 Muskegon, Mich.	301	364,343	9,863,819	478,391	4,264	1,915,089	
92 Nashville, Tenn.	420	1,168,646	9,904,295	681,619	8,122	3,728,958	
93 New Albany, Ind.	298	250,910	5,342,071	608,026	4,506	2,097,831	
94 Newark, N. J.	2,490	10,123,030	62,552,752	6,112,239	46,848	26,857,170	
95 New Bedford, Mass.	413	946,280	20,132,683	980,306	11,422	4,085,016	
96 Newburgh, N. Y.	287	1,073,360	5,773,354	472,773	4,516	2,080,795	
97 New Haven, Conn.	1,420	3,912,025	10,592,354	2,696,245	17,864	10,096,820	
98 New Orleans, La.	1,961	6,832,004	20,319,277	3,295,077	25,221	10,887,584	
99 Newport, Ky.	1,002	1,026,645	3,471,388	335,404	4,848	2,426,689	
100 Newton, Mass.	193	314,075	4,393,807	243,663	2,624	1,408,275	
101 New York, N. Y.	25,403	214,827,804	426,118,272	50,901,710	354,291	230,102,107	
102 Norfolk, Va.	374	1,029,620	3,417,464	265,075	2,948	1,388,195	
103 Oakland, Cal.	342	956,385	6,629,468	438,010	4,438	3,090,007	
104 Omaha, Neb.	675	2,912,690	18,319,504	3,673,516	9,414	6,115,294	
105 Oshkosh, Wis.	423	483,890	6,401,812	526,149	5,383	2,019,026	
106 Oswego, N. Y.	249	696,202	6,254,200	684,969	3,415	1,503,613	
107 Paterson, N. J.	599	3,654,328	27,663,549	2,143,313	24,232	11,578,082	
108 Pawtucket, R. I.	371	1,330,795	16,693,084	1,051,697	9,508	4,079,579	
109 Peoria, Ill.	556	1,387,850	15,085,802	24,475,327	7,706	4,344,012	
110 Petersburg, Va.	271	374,965	3,911,240	834,420	5,525	1,367,414	
111 Philadelphia, Pa.	18,166	64,144,077	375,249,715	30,615,476	260,264	135,917,021	
112 Pittsburgh, Pa.	1,420	8,102,655	108,308,838	7,501,199	50,458	33,898,152	
113 Portland, Me.	662	1,661,270	6,887,557	585,149	6,260	3,160,132	
114 Portland, Ore.	569	3,154,200	16,863,568	1,220,577	9,731	7,592,020	
115 Poughkeepsie, N. Y.	303	1,085,623	4,850,650	311,022	3,772	1,837,056	
116 Providence, R. I.	1,034	8,601,799	61,133,598	5,082,048	42,124	20,703,399	
117 Pueblo, Colo.	102	233,053	1,278,702	92,702	1,071	769,346	
118 Quincy, Ill.	364	1,322,880	6,554,810	618,086	5,110	2,429,834	
119 Racine, Wis.	190	287,206	11,553,207	662,448	4,872	2,418,498	
120 Reading, Pa.	435	1,355,888	14,083,374	1,042,366	12,966	5,461,293	
121 Richmond, Va.	966	2,723,460	16,785,242	3,290,170	18,512	7,192,646	
122 Rochester, N. Y.	1,892	7,397,018	46,301,058	5,613,852	32,720	16,819,566	
123 Rockford, Ill.	246	855,522	7,715,060	549,317	5,223	2,474,703	
124 Sacramento, Cal.	302	762,025	6,054,782	439,237	4,510	2,067,954	
125 Saginaw, Mich.	335	792,740	12,406,823	667,399	5,716	2,653,135	
126 St. Joseph, Mo.	276	1,217,190	5,230,697	496,472	5,026	2,351,601	
127 St. Louis, Mo.	6,148	29,097,245	141,872,386	17,734,350	94,051	53,394,630	
128 St. Paul, Minn.	1,442	6,404,339	22,501,211	1,740,518	18,558	10,373,396	
129 Salem, Mass.	513	732,613	6,250,164	424,772	5,798	2,446,076	
130 Salt Lake, Utah.	175	802,361	3,934,035	291,255	2,287	1,499,412	
131 San Antonio, Tex.	309	678,205	3,004,425	494,744	2,441	1,634,306	
132 San Francisco, Cal.	4,050	30,576,810	74,894,301	8,322,483	48,446	30,979,374	
133 Savannah, Ga.	244	779,298	5,379,774	484,497	2,760	1,362,120	
134 Scranton, Pa.	177	599,600	16,287,271	874,621	9,123	4,273,012	
135 Seattle, Wash.	331	1,046,434	4,758,283	495,061	4,048	3,405,523	

MANUFACTURES.

709

HAVING A POPULATION OF 20,000 AND OVER: 1890—Continued.

AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES—continued.						Cost of materials used.	Value of products, including receipts from custom work and repairing.	
Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.				
Number.	Wages.	Number.	Wages.	Number.	Wages.			
192	\$177,000	1,734	\$726,726	504	\$202,052	\$1,730,637	\$4,009,574	60
367	306,935	2,518	1,228,416	328	127,150	2,464,914	5,020,110	67
283	270,363	3,593	1,327,662	251	59,700	5,971,572	9,157,501	68
849	490,345	6,189	1,913,888	1,141	306,059	6,306,495	11,361,535	69
708	631,329	14,480	5,666,177	1,088	425,877	15,145,851	26,550,725	70
297	267,232	6,270	2,131,482	806	287,425	4,828,710	9,073,866	71
266	266,606	1,141	473,366	138	76,680	1,256,739	2,708,445	72
281	263,743	1,490	825,018	150	72,985	1,534,623	3,710,133	73
170	142,826	4,275	1,635,339	476	181,480	2,980,584	5,900,140	74
201	195,505	1,191	509,729	142	65,623	1,306,773	3,120,077	75
448	508,725	3,880	2,425,245	363	182,162	10,194,720	16,200,226	76
1,085	1,121,514	3,192	2,031,957	680	315,137	5,014,034	9,893,845	77
3,039	2,528,403	17,921	7,412,323	6,288	2,432,145	28,032,840	54,515,226	78
1,377	1,198,084	24,093	8,588,822	3,685	1,155,586	22,986,138	42,450,509	79
2,134	1,744,008	9,003	5,382,813	11,315	5,650,353	23,039,587	44,223,845	80
214	246,981	5,810	3,066,233	268	123,275	10,617,338	17,422,721	81
260	185,921	3,000	1,025,980	157	31,061	2,664,498	5,171,530	82
351	268,757	2,686	1,346,841	1,732	768,579	5,901,817	9,592,501	83
468	444,339	14,343	5,271,636	540	234,239	11,872,289	20,187,295	84
021	616,411	4,952	2,260,334	545	251,930	7,080,190	13,244,538	85
369	438,618	6,153	3,211,388	1,148	552,506	4,900,594	11,902,172	86
4,573	3,909,456	30,239	14,167,158	8,611	2,570,103	55,815,485	97,503,951	87
4,089	3,579,622	21,426	10,590,914	2,277	1,083,639	54,592,210	82,922,974	88
294	219,083	2,321	894,195	398	116,075	1,814,103	3,826,399	89
177	152,836	1,596	584,715	93	49,708	1,753,100	3,234,062	90
381	307,696	3,544	1,476,060	389	132,235	4,795,251	8,278,160	91
847	676,512	6,822	2,724,243	953	328,201	7,094,751	14,500,823	92
341	262,490	3,822	1,424,550	843	410,701	3,470,492	6,031,024	93
4,129	4,719,636	30,295	10,522,695	12,424	5,614,839	46,020,536	93,476,652	94
610	606,911	10,154	4,045,095	658	332,410	8,581,373	17,025,779	95
420	348,310	2,562	1,231,680	1,534	500,700	3,521,078	6,964,287	96
1,958	1,910,944	10,873	5,023,801	5,033	2,262,075	14,400,638	33,396,311	97
2,879	2,612,472	13,539	5,894,100	8,803	2,440,952	28,271,445	48,295,449	98
1,072	734,512	3,002	1,865,455	774	216,722	3,072,313	6,687,087	99
234	239,365	2,264	1,121,680	126	47,224	2,175,249	4,335,704	100
45,147	51,602,958	227,342	138,346,075	81,802	40,063,134	306,422,722	777,222,721	101
557	371,805	1,997	878,184	394	138,250	2,542,790	5,100,408	102
520	521,073	3,845	2,910,482	573	249,482	4,687,049	9,112,778	103
1,191	1,251,752	7,871	4,697,129	352	166,413	29,260,102	42,339,321	104
466	306,004	4,314	1,569,890	603	143,132	4,668,843	8,620,626	105
448	401,201	2,217	900,212	750	202,140	4,604,096	7,482,378	106
1,034	1,138,357	17,422	7,930,004	5,776	2,509,721	22,480,727	42,263,531	107
559	527,050	7,079	3,110,016	1,240	442,513	9,415,654	16,303,729	108
890	805,796	5,703	8,032,350	1,113	505,866	9,096,370	55,535,023	109
417	236,863	4,987	1,055,957	421	72,594	4,384,102	7,167,004	110
25,617	22,610,848	183,934	91,968,184	50,713	21,342,689	311,645,804	577,234,446	111
3,475	4,008,666	46,472	20,258,103	6,491	3,631,353	60,802,195	126,859,657	112
922	746,239	4,273	1,974,614	1,065	439,279	6,280,432	11,371,487	113
1,078	1,372,583	8,312	5,996,735	341	223,602	12,807,106	25,427,003	114
444	341,860	2,488	1,185,786	840	310,010	3,200,593	6,254,182	115
3,137	3,107,509	34,601	15,767,658	4,386	1,918,232	39,794,241	77,407,283	116
134	130,587	874	581,835	63	47,924	999,966	2,874,631	117
533	443,426	3,052	1,655,951	625	330,457	5,701,973	10,395,102	118
412	408,629	3,986	1,534,803	1,074	475,066	4,310,308	8,462,359	119
755	680,823	9,461	3,627,098	2,750	1,152,772	12,009,382	20,855,165	120
1,021	1,438,783	12,047	4,600,289	4,844	1,153,574	14,014,214	27,702,672	121
3,758	3,674,609	22,028	10,714,449	6,934	2,430,508	33,320,308	65,061,156	122
356	308,607	4,399	2,002,441	468	163,655	4,248,001	8,888,904	123
324	315,085	3,443	2,489,316	743	193,553	6,033,317	10,424,582	124
411	381,512	4,834	2,081,376	471	190,247	6,587,763	11,303,006	125
447	381,460	3,082	1,466,605	1,497	503,626	7,848,353	11,016,141	126
11,140	11,550,806	60,434	35,957,645	13,477	5,837,089	122,210,570	229,157,349	127
2,279	1,978,846	14,030	7,448,316	1,599	916,234	15,807,573	33,035,073	128
671	472,110	3,510	1,446,108	1,068	527,358	4,738,643	8,522,751	129
301	293,058	1,884	1,129,914	102	75,540	1,966,818	4,624,410	130
419	417,370	1,960	1,163,998	62	52,938	2,387,984	5,623,612	131
6,682	6,388,258	30,992	19,824,835	10,772	4,766,281	78,656,470	135,625,754	132
341	302,772	2,213	995,306	206	63,952	3,297,804	6,319,066	133
298	344,178	8,388	3,711,601	487	217,233	16,922,753	24,341,745	134
280	321,702	3,593	2,916,530	175	167,201	4,778,384	10,203,007	135

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 1.—SUMMARY OF MANUFACTURES IN 165 CITIES

	CITIES.	Number of estab- lishments reporting	CAPITAL.		Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.		
			Value of hired property.	Direct invest- ment.		Aggregates.		
						Average number.	Total wages.	
136	Sioux City, Iowa	196	\$1,575,175	\$5,222,626	\$494,489	3,008	\$1,871,425	
137	Somerville, Mass.	404	592,590	3,889,850	439,673	3,285	1,783,979	
138	South Bend, Ind.	208	361,945	11,252,887	538,151	6,088	2,842,104	
139	Springfield, Ill.	374	687,000	3,611,415	303,368	3,269	1,745,158	
140	Springfield, Mass.	692	3,018,598	13,199,283	875,334	10,250	5,808,894	
141	Springfield, Mo.	277	385,500	1,454,613	270,601	1,422	677,146	
142	Springfield, Ohio	372	884,841	14,567,931	1,046,292	6,693	3,195,441	
143	Syracuse, N. Y.	1,246	3,777,463	22,853,424	2,680,781	17,518	8,520,677	
144	Tacoma, Wash.	225	534,450	7,227,201	464,874	4,087	3,280,820	
145	Taunton, Mass.	316	650,880	7,891,382	707,629	6,406	3,131,273	
146	Terra Haute, Ind.	367	518,073	4,965,184	3,903,928	5,205	2,154,001	
147	Toledo, Ohio	734	2,279,040	12,700,372	1,246,042	10,313	5,214,448	
148	Topeka, Kan.	371	876,175	3,282,899	276,038	3,390	1,854,923	
149	Trenton, N. J.	885	1,069,662	19,278,041	1,319,216	14,984	7,068,894	
150	Troy, N. Y.	840	3,290,026	24,030,753	2,837,802	25,157	9,544,762	
151	Utica, N. Y.	565	1,840,625	14,382,510	902,294	12,598	4,820,711	
152	Washington, D. C.	2,295	6,604,939	28,865,089	1,580,114	23,104	14,622,264	
153	Waterbury, Conn.	219	876,487	17,682,500	1,155,304	10,354	5,608,654	
154	Wheeling, W. Va.	418	983,230	8,494,630	1,205,921	6,850	3,037,727	
155	Wichita, Kan.	144	478,051	3,062,696	304,458	1,086	907,931	
156	Wilkesbarre, Pa.	270	838,525	5,598,139	578,640	4,405	2,058,978	
157	Williamsport, Pa.	302	793,335	12,335,423	626,646	6,113	2,677,579	
158	Wilmington, Del.	590	1,378,180	20,585,046	1,131,648	14,377	7,664,148	
159	Wilmington, N. C.	121	141,166	1,752,667	105,571	1,499	549,868	
160	Woonsocket, R. I.	201	962,560	10,090,619	393,282	6,417	2,301,617	
161	Worcester, Mass.	996	4,679,140	25,230,620	1,827,815	21,729	11,694,121	
162	Yonkers, N. Y.	628	2,163,519	10,989,789	810,340	11,303	5,877,145	
163	York, Pa.	350	444,790	3,842,453	358,635	4,120	1,609,456	
164	Youngstown, Ohio	245	418,044	7,642,742	462,785	5,843	3,007,659	
165	Zanesville, Ohio	301	344,847	4,200,409	393,016	3,687	1,560,933	

MANUFACTURES.

711

HAVING A POPULATION OF 20,000 AND OVER: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.								
Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.	
Number.	Wages.	Number.	Wages.	Number.	Wages.			
379	\$350,849	2,501	\$1,412,158	128	\$108,418	\$10,295,190	\$14,119,843	136
496	426,942	2,559	1,263,382	230	93,655	4,420,128	7,307,522	137
338	357,542	3,773	1,670,067	1,077	834,495	4,607,710	9,812,513	138
416	354,851	2,631	1,202,712	222	97,595	3,790,754	6,562,470	139
1,091	1,025,258	7,399	4,024,439	1,760	819,197	7,817,534	17,040,692	140
126	92,793	1,145	521,950	151	62,403	1,657,877	3,062,095	141
502	532,769	5,434	2,357,594	667	305,078	4,752,062	10,760,965	142
1,948	1,787,667	12,224	5,623,774	3,346	1,109,236	14,104,504	29,297,241	143
409	557,585	3,437	2,528,658	221	194,577	5,171,658	10,432,055	144
318	304,079	5,538	2,540,196	615	290,998	4,790,287	9,036,829	145
485	364,559	3,432	1,385,242	1,288	404,200	6,785,616	13,720,523	146
1,066	881,121	8,034	3,801,174	1,213	532,148	12,189,924	21,651,574	147
346	275,580	2,800	1,501,409	154	77,854	3,670,106	6,752,449	148
1,221	1,184,490	12,365	6,053,366	1,398	781,038	12,625,400	25,628,223	149
1,256	1,253,182	9,605	4,544,976	14,206	3,740,604	13,150,156	29,248,750	150
971	908,097	5,997	2,439,070	5,620	978,944	7,790,766	15,615,715	151
2,998	2,358,122	18,587	10,846,522	1,819	1,417,020	17,194,607	39,331,437	152
514	623,780	5,971	3,318,318	3,860	1,636,550	8,715,921	17,712,829	153
743	506,565	4,506	1,004,228	1,541	566,934	7,981,940	10,022,589	154
241	233,937	1,209	623,084	146	50,910	3,380,478	5,074,013	155
264	250,752	3,226	1,559,345	915	254,881	4,026,579	7,746,371	156
460	406,048	4,733	1,988,556	920	282,905	5,919,284	11,107,037	157
1,007	956,281	12,186	5,884,173	1,234	823,694	13,050,152	24,568,125	158
141	89,260	1,203	447,593	95	13,015	1,014,384	1,994,147	159
227	220,388	5,951	2,077,099	239	64,130	5,532,286	9,013,264	160
1,485	1,573,707	17,118	8,802,344	3,126	1,318,070	21,208,904	39,533,869	161
860	803,168	9,194	4,529,489	1,249	544,488	10,592,609	21,310,017	162
451	280,038	2,752	1,109,486	917	210,932	3,170,840	5,968,223	163
357	311,707	5,256	3,181,405	230	114,547	9,380,929	14,667,260	164
299	235,343	2,717	1,049,622	671	275,968	3,331,026	6,053,484	165

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION

[“DIRECT INVESTMENT” includes land; buildings; machinery, tools, and implements; raw materials; stock in process and taxes (including internal revenue); insurance; repairs, ordinary, of buildings and machinery; amount paid contractors; interest of power and heat, and mill supplies.]

AKRON, OHIO.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired property.	Direct investment.	
1	All industries	350	\$724,312	\$14,237,429	\$977,471
2	Agricultural implements	3	3,200	6,112,747	316,883
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	19	22,662	20,377	3,064
4	Boots and shoes, custom work and repairing	30	14,550	27,620	1,631
5	Bread and other bakery products	17	37,675	68,087	12,010
6	Brick and tile. (See also Clay and pottery products.)	11	.....	262,785	15,820
7	Carpentering	29	5,200	243,108	7,429
8	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	8	34,200	63,100	5,405
9	Clay and pottery products. (See also Brick and tile.)	13	3,000	940,997	58,017
10	Clothing, men's, custom work and repairing	16	64,500	39,615	7,173
11	Clothing, women's, dressmaking	16	13,300	1,702	1,400
12	Confectionery	5	6,500	9,930	1,755
13	Flouring and grist mill products	4	.....	1,927,100	180,710
14	Foundry and machine shop products. (See also Steam fittings and heating apparatus.)	13	86,750	600,050	48,881
15	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, chairs; Mattresses and spring beds.)	4	2,950	20,975	507
16	Looking-glass and picture frames	8	18,000	20,380	2,203
17	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts; Wood, turned and carved.)	6	1,925	370,424	21,555
18	Masonry, brick and stone. (See also Plastering and stuccowork.)	14	.....	51,025	3,788
19	Millinery, custom work	7	48,850	41,150	5,274
20	Painting and paper hanging	11	4,700	10,730	1,424
21	Patent medicines and compounds	3	7,600	6,200	1,446
22	Photography	7	20,000	9,850	3,317
23	Plastering and stuccowork. (See also Masonry, brick and stone.)	7	.....	9,250	1,168
24	Plumbing and gas fitting	3	12,000	23,800	2,001
25	Printing and publishing, book and job	3	11,500	498,250	23,967
26	Printing and publishing, newspapers and periodicals	7	75,000	126,073	22,146
27	Saddlery and harness	12	15,300	11,845	1,875
28	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	9	20,100	36,095	2,977
29	Tobacco, cigars and cigarettes	7	6,500	10,486	2,582
30	All other industries (a)	58	238,950	2,556,078	220,918

a Embraces awnings, tents, and sails, 1; belting and hose, leather, 1; brooms and brushes, 1; carriage and wagon materials, 2; carriages and sleds, children's, 1; clothing, women's, factory product, 2; coffins and burial cases, trimming and finishing, 1; cooperage, 2; cordage and twine, 1; dyeing and cleaning, 2; electroplating, 1; felt goods, 1; files, 1; food preparations, 1; furniture, chairs, 1; gas, illuminating and heating, 2; hand stamps, 1; hardware, saddlery, 2; iron and steel, 1; iron and steel, forgings, 2; liquors, malt, 2; lumber and other mill products from logs or bolts, 2; marble and stone

ALBANY, N. Y.

1	All industries	1,305	3,589,739	17,270,705	1,909,304
2	Agricultural implements	3	22,235	241,506	6,679
3	Awnings, tents, and sails	3	3,000	10,250	428
4	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	39	50,000	89,008	7,348
5	Bookbinding and blank-book making. (See also Printing and publishing.)	6	21,500	44,000	2,186
6	Boot and shoe uppers	3	8,400	3,700	520
7	Boots and shoes, custom work and repairing	111	87,360	54,434	9,095
8	Boots and shoes, factory product	5	27,380	397,580	15,317
9	Bottling. (See also Liquors, malt; Mineral and soda waters.)	6	18,775	65,555	12,724
10	Boxes, cigar	4	7,250	18,848	1,018
11	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	3	12,200	27,400	2,621
12	Bread and other bakery products	71	143,385	201,437	34,159
13	Brick and tile. (See also Clay and pottery products.)	12	8,250	444,476	29,641
14	Brooms and brushes	3	6,500	30,084	1,172
15	Carpentering	80	46,875	330,498	21,568
16	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	15	17,700	235,913	17,648

MANUFACTURES.

713

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890.

finished products on hand; cash and bills and accounts receivable. "MISCELLANEOUS EXPENSES" include rent for tenancy; paid on cash used in the business, and all sundries not elsewhere reported. "COST OF MATERIALS USED" includes fuel; rent

AKRON, OHIO.

AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
6,390	\$3,206,314	587	\$513,000	4,649	\$2,114,282	1,154	\$570,023	\$6,928,481	\$12,550,038	1	
949	530,701	62	78,401	351	157,450	536	204,850	900,005	2,238,000	2	
36	21,248	14	8,950	22	12,208	.....	.....	12,928	53,767	3
34	17,985	21	11,080	12	6,535	1	420	11,038	35,015	4	
80	38,230	29	14,640	51	23,590	.....	.....	100,357	175,068	5
247	89,372	15	8,733	232	80,630	.....	.....	43,980	216,960	6
346	185,885	33	34,040	312	160,745	1	500	308,182	542,329	7	
62	36,133	10	8,308	52	27,825	.....	.....	31,014	84,248	8
502	240,638	34	38,085	398	108,182	70	39,371	154,048	587,850	9	
90	42,050	7	3,670	5	2,100	78	36,280	50,616	122,892	10	
40	8,647	11	4,256	29	4,391	.....	.....	15	13,120	11
15	7,802	7	5,010	8	2,852	.....	.....	7,985	21,845	12
452	225,207	26	33,509	422	189,698	4	2,000	2,492,045	2,968,109	13	
665	391,134	36	38,484	503	325,150	36	27,500	483,640	1,047,424	14	
9	3,665	.....	.....	9	3,665	.....	.....	10,040	21,000	15
17	7,925	8	4,605	9	3,320	.....	.....	14,710	28,023	16
167	104,725	16	18,150	151	86,575	.....	.....	102,465	344,100	17
242	115,720	18	14,041	224	101,679	.....	.....	128,540	250,678	18
45	15,890	12	5,193	33	10,697	.....	.....	34,990	61,720	19
48	26,517	13	8,167	35	18,050	.....	.....	10,776	42,898	20
13	7,520	6	3,620	7	3,900	.....	.....	8,550	26,000	21
19	12,644	9	7,600	10	4,984	.....	.....	6,806	26,700	22
54	25,035	10	6,182	35	16,203	9	2,050	11,467	39,440	23	
30	20,860	4	5,450	28	15,400	.....	.....	38,325	63,542	24
406	186,340	16	19,500	480	166,840	.....	.....	185,032	413,600	25
127	75,656	30	23,027	79	34,562	18	17,167	37,392	150,132	26	
22	9,792	11	5,084	7	3,608	4	1,100	9,508	24,827	27	
37	21,125	6	3,150	31	17,975	.....	.....	20,119	54,099	28
28	8,194	4	1,658	20	5,186	4	1,400	6,320	20,150	29	
1,618	729,624	110	113,006	1,006	460,233	393	155,785	1,558,880	2,868,102	30	

work, 1; matches, 1; mattresses and spring beds, 1; mineral and soda waters, 1; models and patterns, 2; monuments and tombstones, 1; paints, 2; paper, 1; pumps, not including steam pumps, 1; roofing and roofing materials, 2; rubber and elastic goods, 1; sausages, 1; shipbuilding, 2; shirts, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; steam fittings and heating apparatus, 1; tools, not elsewhere specified, 1; varnish, 1; watch, clock, and jewelry repairing, 1; wheelbarrows, 1; wood, turned and carved, 1.

ALBANY, N. Y.

15,041	7,980,378	2,030	1,789,079	10,200	5,032,329	2,721	1,098,970	11,773,241	25,531,480	1
291	183,647	23	19,717	268	163,930	.....	.....	165,746	382,263	2
18	6,147	3	2,350	15	3,797	.....	.....	12,940	21,834	3
122	70,586	42	28,772	77	40,883	3	924	34,033	125,306	4
80	45,601	8	7,100	40	14,401	32	24,100	20,627	88,599	5
11	5,890	3	2,750	8	3,140	.....	.....	8,341	16,360	6
186	77,705	100	50,874	31	13,734	46	13,597	42,910	139,715	7
493	233,944	24	30,049	109	86,024	270	117,871	339,405	620,692	8
46	27,015	11	10,288	35	16,727	.....	.....	88,570	157,098	9
35	10,840	5	3,316	12	2,998	18	4,520	14,818	37,476	10
60	14,211	4	2,925	12	4,709	44	6,577	14,841	32,597	11
352	102,082	107	74,054	245	117,128	.....	.....	429,743	758,133	12
396	129,144	18	15,101	359	107,657	10	6,956	40,313	252,149	13
172	29,892	6	7,888	8	5,404	158	16,540	43,370	80,880	14
686	480,246	93	94,504	592	385,452	1	200	482,790	1,185,171	15
186	113,484	21	19,319	140	74,165	25	20,000	84,532	261,519	16

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ALBANY, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
17	Chemicals. (See also Fertilizers.)	3	\$18,000	\$84,960	\$6,788
18	Clothing, men's, custom work and repairing	70	287,800	488,547	35,091
19	Clothing, men's, factory product	5	160,825	292,800	14,177
20	Clothing, women's, dressmaking	188	291,235	91,891	33,310
21	Clothing, women's, factory product	5	10,800	191,946	3,847
22	Coffee and spice, roasting and grinding	5	5,000	218,075	11,711
23	Coffins and burial cases, trimming and finishing	5	3,305	21,700	967
24	Confectionery	17	82,450	105,585	19,670
25	Cooperage	6	20,075	53,632	4,354
26	Dyeing and cleaning	5	10,000	18,275	1,451
27	Electroplating	4	10,000	8,700	652
28	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	20	91,512	1,551,504	184,335
29	Furnishing goods, men's. (See also Shirts.)	3	2,500	226,185	91,684
30	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	17	61,145	72,731	6,687
31	Hairwork	6	23,125	9,820	2,007
32	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	3	15,000	41,200	1,855
33	Hosiery and knit goods	3	2,500	79,712	3,170
34	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	4	2,000	161,200	2,162
35	Kindling wood	3	800	6,412	727
36	Leather, tanned and curried	3	12,000	36,300	1,281
37	Liquors, malt. (See also Bottling.)	12	23,887	2,957,704	586,358
38	Lock and gunsmithing	6	7,000	17,700	703
39	Looking-glass and picture frames	6	37,050	41,988	3,301
40	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	11	56,215	948,471	22,462
41	Malt. (See also Liquors, malt.)	9	92,526	661,277	60,785
42	Marble and stone work. (See also Monuments and tombstones.)	3	3,000	21,687	1,733
43	Masonry, brick and stone	18	11,550	103,850	17,289
44	Millinery, custom work	27	171,750	120,949	14,947
45	Mineral and soda waters. (See also Bottling.)	6	3,250	55,475	4,708
46	Models and patterns	3	4,315	7,525	509
47	Monuments and tombstones. (See also Marble and stone work.)	8	12,500	80,495	3,377
48	Musical instruments, pianos and materials	5	33,925	335,911	12,104
49	Painting and paper hanging	48	70,600	82,892	7,755
50	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	4	7,450	24,150	2,611
51	Photography	19	125,000	60,335	13,874
52	Plumbing and gas fitting	42	148,000	236,009	10,107
53	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	21	109,615	677,032	40,294
54	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	19	109,284	369,410	100,585
55	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	7	40,245	43,640	5,395
56	Saddlery and harness	22	43,835	27,451	4,013
57	Shirts. (See also Furnishing goods, men's.)	9	20,025	15,710	2,507
58	Slaughtering and meat packing, wholesale. (See also Sausage.)	6	36,225	23,500	3,961
59	Slaughtering, wholesale, not including meat packing. (See also Sausage.)	6	5,000	65,173	5,564
60	Soap and candles. (See also Grease and tallow.)	3	-----	36,500	1,568
61	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	19	40,000	63,287	5,114
62	Tobacco, cigars and cigarettes. (See also Tobacco, chewing, smoking and snuff.)	91	174,400	360,070	85,274
63	Umbrellas and canes	5	31,800	20,870	2,962
64	Watch, clock, and jewelry repairing. (See also Jewelry.)	36	81,550	37,580	4,878
65	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	3	8,075	14,550	802
66	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	3	600	8,650	440
67	All other industries (a)	89	473,325	4,255,171	280,121

a Embraces artificial feathers and flowers, 1; baking and yeast powders, 1; bicycles and tricycles, 1; bluing, 1; boot and shoe findings, 2; boxes, wooden packing, 2; brass castings and brass finishing, 2; bridges, 1; buttons, 1; calcium lights, 1; carpets, rag, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 2; celluloid and celluloid goods, 1; clay and pottery products, 2; clothing, men's, factory product, buttonholes, 1; coffins, burial cases, and undertakers' goods, 2; cordage and twine, 1; cork, cutting, 1; cutlery and edge tools, 2; druggists' preparations, not including prescriptions, 1; dye stuffs and extracts, 1; electric light and power, 2; emery wheels, 1; engraving, steel, including plate printing, 2; engraving, wood, 1; fancy articles, not elsewhere specified, 2; felt goods, 2; fertilizers, 1; files, 1; flags and

MANUFACTURES.

715

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ALBANY, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.				
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
60	\$30,780	8	\$12,040	51	\$18,540	1	\$200	\$253,518	\$347,514	17			
691	348,040	96	83,041	161	73,599	434	191,000	394,021	878,079	18			
257	133,935	34	41,171	43	21,378	180	71,386	167,245	352,252	19			
629	215,642	197	118,576	431	96,866	1	200	65,864	327,899	20			
256	78,248	24	15,762	44	18,983	188	48,503	163,109	314,895	21			
58	41,750	22	21,020	35	17,630	1	100	410,387	513,166	22			
9	6,410	5	4,250	4	2,160	.....	.....	10,498	22,968	23	
166	75,473	33	22,225	132	53,196	1	52	164,240	301,380	24			
63	29,018	0	7,256	49	10,742	5	2,020	54,010	90,377	25			
20	10,804	8	5,100	12	5,704	.....	.....	2,855	22,582	26	
18	10,806	4	3,800	11	5,416	3	1,500	4,030	18,470	27			
1,058	644,758	65	58,977	901	517,582	92	38,240	640,504	2,059,102	28			
241	101,272	27	20,810	11	4,682	203	75,780	226,768	502,050	29			
135	78,094	22	14,430	103	57,599	10	1,965	64,440	165,215	30			
13	4,470	5	2,030	8	2,443	.....	.....	3,790	11,205	31	
29	8,655	4	1,907	25	6,748	.....	.....	26,790	71,800	32	
104	25,222	3	2,050	48	11,525	53	11,047	66,316	117,151	33			
89	46,760	5	5,650	84	41,110	.....	.....	50,910	130,990	34	
11	3,749	3	1,620	7	1,929	1	200	11,610	19,416	35			
13	8,586	3	2,498	10	6,088	.....	.....	37,862	51,850	36	
432	422,314	78	155,261	354	267,053	.....	.....	711,215	2,070,617	37	
14	8,532	5	2,925	9	5,607	.....	.....	8,465	22,354	38	
46	26,406	11	9,032	35	17,374	.....	.....	31,267	68,370	39	
257	134,444	19	14,934	238	119,610	.....	.....	206,751	395,034	40	
154	64,836	24	20,552	130	44,284	.....	.....	498,492	727,198	41	
22	12,802	6	4,956	14	7,646	2	200	19,376	39,152	42			
368	230,867	26	30,500	342	200,367	.....	.....	170,433	503,753	43	
219	70,947	65	32,943	154	38,004	.....	.....	121,336	238,750	44	
36	19,662	8	6,570	23	13,092	.....	.....	22,598	88,376	45	
10	13,835	3	4,260	13	9,075	.....	.....	1,095	17,300	46	
66	51,391	10	11,300	55	39,831	1	260	27,007	95,815	47			
159	93,652	7	8,524	112	63,731	40	21,397	146,000	332,807	48			
264	166,710	55	42,850	200	110,870	9	3,990	120,964	320,490	49			
15	7,985	6	4,350	6	3,400	3	215	9,693	22,685	50			
103	62,345	34	20,554	69	35,791	.....	.....	41,110	159,348	51	
375	228,904	68	65,428	307	163,481	.....	.....	277,095	605,907	52	
645	348,038	39	47,020	584	288,778	22	12,210	152,051	583,366	53			
448	322,630	53	57,930	318	190,000	77	74,700	147,135	608,470	54			
105	76,375	11	11,530	94	64,845	.....	.....	85,860	193,560	55	
61	32,910	21	13,618	30	14,658	10	4,634	23,160	67,902	56			
147	43,974	11	12,030	24	7,814	112	24,130	25,707	81,374	57			
42	18,200	11	7,544	31	10,665	.....	.....	141,527	176,509	58	
32	18,083	9	9,432	22	8,391	1	260	350,315	414,602	59			
11	6,536	3	2,100	8	4,436	.....	.....	17,791	28,172	60	
79	41,915	21	14,731	56	25,784	2	1,400	23,035	70,508	61			
681	279,082	116	79,448	245	52,300	320	147,334	277,739	700,861	62			
16	6,590	5	2,818	10	3,072	1	760	18,436	30,477	63			
70	35,860	38	21,525	30	14,270	2	65	16,920	67,100	64			
14	6,924	5	3,156	9	3,768	.....	.....	4,131	13,015	65	
11	6,070	3	2,800	8	4,170	.....	.....	1,227	9,850	66	
3,070	1,002,346	205	215,080	2,544	1,232,744	330	154,522	3,494,447	6,181,059	67			

banners, 1; flavoring extracts, 2; flouring and grist mill products, 2; food preparations, 1; foundry supplies, 1; fur goods, 2; gas, illuminating and heating, 1; gas machines and meters, 1; gold and silver, leaf and foil, 1; grease and tallow, 1; hand stamps, 2; hats and caps, not including wool hats, 1; house furnishing goods, not elsewhere specified, 2; jewelry, 1; lusters, 1; lithographing and engraving, 1; mattresses and spring beds, 1; mucilage and paste, 2; paper goods, not elsewhere specified, 2; paving and paving materials, 2; photolithographing and engraving, 1; pickles, preserves, and sauces, 1; plumbers' supplies, 1; refrigerators, 1; sausage, 2; saws, 1; shipbuilding, 1; silverware, 1; stamped ware, 1; steam fittings and heating apparatus, 2; tobacco, chewing, smoking, and snuff, 2; tools, not elsewhere specified, 2; toys and games, 1; vinegar and cider, 1; window shades, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ALLEGHENY, PA.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscella- neous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries.....	675	\$2,433,035	\$22,253,243	\$1,728,571
2	Baskets and rattan and willow ware	3	6,270	3,725	634
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	32	24,700	58,505	4,500
4	Boots and shoes, custom work and repairing	4	6,764	1,235	708
5	Bread and other bakery products.....	56	155,422	345,520	37,736
6	Brick and tile. (See also Clay and pottery products.).....	4	14,727	47,020	3,041
7	Brooms and brushes	6	2,473	20,580	802
8	Carpentering.....	51	55,170	374,700	29,787
9	Carpets, rag	3	1,856	3,000	315
10	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	21	54,087	149,986	8,155
11	Clothing, men's, custom work and repairing	32	138,733	215,875	40,937
12	Clothing, women's, dressmaking	9	14,756	8,320	1,400
13	Confectionery	7	36,450	30,800	5,320
14	Cooperage	8	2,304	39,095	1,260
15	Dentistry, mechanical.....	5	8,450	4,394	806
16	Dyeing and cleaning.....	4	52,711	4,965	9,272
17	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	20	93,555	1,847,262	70,017
18	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, chairs; Furniture, factory product; Mattresses and spring beds.)	4	20,550	0,250	2,143
19	Iron and steel	6	265,000	4,490,162	175,838
20	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	8	36,050	39,670	5,443
21	Leather, tanned and curried	9	2,500	2,013,276	80,835
22	Liquors, malt. (See also Bottling.)	4	-----	1,092,663	437,115
23	Lumber and other mill products from logs or bolts	5	32,250	151,000	6,355
24	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	13	84,900	408,985	23,191
25	Malt. (See also Liquors, malt)	3	11,111	26,500	2,470
26	Marble and stone work. (See also Monuments and tombstones.).....	9	6,544	162,321	3,056
27	Masonry, brick and stone. (See also Plastering and stuccowork.)	15	10,533	267,828	7,573
28	Millinery, custom work	10	183,488	88,335	15,602
29	Monuments and tombstones. (See also Marble and stone work.)	3	3,633	20,680	801
30	Painting and paper hanging	31	42,100	55,064	4,004
31	Paints. (See also Chemicals; Varnish.)	8	10,700	2,027,964	73,315
32	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	4	18,375	14,908	5,728
33	Photography	8	43,300	11,070	4,264
34	Plastering and stuccowork. (See also Masonry, brick and stone.)	5	9,100	6,880	912
35	Plumbing and gas fitting	22	80,150	164,965	10,015
36	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	12	38,950	34,408	4,049
37	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	6	25,713	25,212	10,160
38	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	11	17,375	40,246	2,747
39	Saddlery and harness	12	27,680	39,050	4,223
40	Slaughtering and meat packing, wholesale. (See also Slaughtering, wholesale, not including meat packing.)	7	-----	140,860	7,104
41	Soap and candles. (See also Grease and tallow.)	4	7,525	736,720	56,626
42	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	22	83,056	130,763	13,941
43	Tobacco, cigars and cigarettes	70	181,750	245,388	247,290
44	Watch, clock, and jewelry repairing	5	36,563	32,400	4,428
45	All other industries (a)	85	476,637	6,491,722	802,402

^a Embraces ammunition, 1; awnings, tents, and sails, 1; axle grease, 2; bluing, 1; bookbinding and blank-book making, 2; boot and shoe cut stock, 1; boot and shoe uppers, 1; boots and shoes, factory product, 2; bottling, 2; boxes, fancy and paper, 1; boxes, wooden packing, 1; brass, 2; brass castings and brass finishing, 1; carriage and wagon materials, 2; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; clay and pottery products, 1; coffins, burial cases, and undertakers' goods, 1; corsets, 1; cotton goods, 1; druggists' preparations, not including prescriptions, 1; dyeing and finishing textiles, 1; electroplating, 1; fertilizers, 1; flouring and grist mill products, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; furniture, chairs, 1; furniture, factory product, 2; gas, illuminating and heating, 1; gas machines and meters, 1; gas stoves, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hairwork, 1; hardware, 2; hardware, saddlery, 2; hat and cap materials, 1; house furnishing goods, not elsewhere specified,

MANUFACTURES.

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1,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ALLEGHENY, PA.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Age er.	Total wages.	Num- ber.	Wages.	Number.	Wages.	Num- ber.	Wages.		
63	\$7,081,529	1,206	\$1,165,004	10,511	\$5,408,402	1,346	\$508,123	\$14,231,758	\$26,878,979 1
13	6,268	1	624	12	5,614	.....	.....	1,370	10,790 2
88	65,078	43	36,946	45	28,132	.....	.....	18,040	103,899 3
9	3,867	4	1,755	1	468	4	1,044	3,139	9,047 4
59	132,665	93	55,801	158	71,489	8	5,375	404,870	647,965 5
70	18,446	.....	.....	60	15,218	10	3,228	5,651	38,734 6
44	15,688	6	3,288	31	8,406	7	3,904	36,689	61,824 7
28	375,084	55	49,102	573	326,522	.....	.....	677,404	1,332,072 8
3	910	2	550	1	390	.....	.....	2,070	4,096 9
40	85,821	24	19,267	116	66,554	.....	.....	68,202	181,005 10
10	108,685	34	24,632	70	33,348	106	50,705	139,800	351,180 11
29	8,023	9	2,763	20	5,200	.....	.....	9,811	20,945 12
66	28,112	17	12,020	49	16,092	.....	.....	37,452	76,384 13
45	22,830	7	5,460	3	2,304	35	15,075	24,178	58,470 14
5	2,600	5	2,600	.....	.....	.....	.....	1,223	6,850 15
96	60,866	7	6,326	94	53,040	5	1,500	28,407	113,050 16
64	674,161	84	106,812	1,063	500,047	117	66,702	827,620	1,795,878 17
17	10,000	5	3,856	12	6,144	.....	.....	9,789	24,287 18
10	1,269,627	49	74,850	2,101	1,194,777	.....	.....	2,491,187	4,476,753 19
91	60,815	15	12,456	80	48,359	.....	.....	80,320	164,154 20
43	294,717	18	10,400	509	261,721	16	13,596	2,693,748	3,418,578 21
83	160,241	21	70,860	159	87,181	3	2,200	307,534	1,179,664 22
81	39,982	9	8,404	49	25,302	29	6,276	88,661	147,445 23
49	225,803	29	23,586	312	195,617	8	6,690	427,906	780,899 24
13	4,232	3	1,328	10	2,904	.....	.....	31,728	39,335 25
95	218,080	17	17,876	278	206,204	.....	.....	110,067	436,336 26
62	312,258	28	25,911	434	286,347	.....	.....	328,329	719,220 27
74	25,034	25	12,234	49	12,800	.....	.....	84,120	198,250 28
16	12,594	4	3,510	12	9,084	.....	.....	9,800	31,500 29
63	119,871	38	29,547	124	89,724	1	600	62,001	230,984 30
93	186,791	52	70,086	241	107,705	.....	.....	842,503	1,382,071 31
4	4,200	3	3,000	1	1,200	.....	.....	3,343	18,618 32
29	14,121	9	5,723	20	8,398	.....	.....	7,171	37,100 33
19	17,700	5	4,704	14	13,056	.....	.....	8,343	29,102 34
25	165,755	46	47,425	179	118,330	.....	.....	108,178	391,700 35
34	17,134	12	9,522	18	7,045	4	507	9,770	37,388 36
23	12,168	7	5,932	14	5,312	2	924	12,321	38,022 37
40	25,225	11	8,193	29	17,032	.....	.....	25,586	57,206 38
40	21,781	13	9,392	26	11,739	1	600	21,025	51,400 39
55	27,140	18	9,750	42	17,390	.....	.....	233,876	294,065 40
71	83,812	27	28,430	144	55,382	.....	.....	575,063	817,743 41
25	78,075	33	26,173	86	47,902	6	4,000	88,207	200,982 42
53	252,470	70	41,815	162	48,796	621	161,859	190,014	737,610 43
16	11,926	6	5,870	10	6,056	.....	.....	10,607	31,000 44
50	1,800,134	247	248,165	3,084	1,389,291	369	162,678	3,082,316	6,088,130 45

rumens, professional and scientific, 1; iron and steel, forgings, 2; iron and steel, nails and spikes, cut and wrought, 1; wire nails, 1; looking-glass and picture frames, 2; mattresses and spring beds, 2; mineral and soda waters, 1; 1; models and patterns, 1; musical instruments and materials, not specified, 1; musical instruments, pianos and s. 1; oil, linseed, 1; oil, lubricating, 1; optical goods, 1; petroleum, refining, 1; pickles, preserves, and sauces, 2; and britannia ware, 1; plumbers' supplies, 1; pumps, not including steam pumps, 1; safes and vaults, 1; salt, 1; building, 1; show cases, 1; slaughtering, wholesale, not including meat packing, 1; tools, not elsewhere specified, 1; and valises, 2; varnish, 2; vinegar and cider, 1; washing machines and clothes wringers, 1; wirework, including 1; spe and cable, 1; wood, turned and carved, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ALLENTOWN, PA.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	382	\$725,864	\$6,977,091	\$532,875
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	11	2,690	19,228	536
3	Boots and shoes, custom work and repairing.....	29	13,522	5,300	1,750
4	Boots and shoes, factory product	5	4,894	429,244	16,089
5	Bottling. (See also Liquors, malt.)	3	10,000	26,555	8,543
6	Bread and other bakery products.....	17	29,280	64,294	10,284
7	Brick and tile. (See also Clay and pottery products.)	8	24,773	185,496	13,357
8	Brooms and brushes	4	900	9,740	985
9	Carpentering	18	336	51,808	74,539
10	Carpets, rug	3	-----	1,705	247
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	6	2,000	71,515	1,947
12	Clothing, men's, custom work and repairing	13	48,756	77,889	8,170
13	Clothing, women's, dressmaking	9	4,400	1,765	540
14	Confectionery	9	13,100	15,119	1,873
15	Dentistry, mechanical	8	1,033	2,980	340
16	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	15	6,562	502,197	20,077
17	Furniture, cabinetmaking, repairing and upholstering	6	6,055	23,032	1,467
18	Furniture, factory product. (See also Furniture, chairs.)	7	18,642	451,942	18,654
19	Hosiery and knit goods. (See also Woolen goods.)	5	10,000	40,115	1,782
20	Iron and steel	4	-----	1,607,845	94,267
21	Leather, tanned and curried	3	1,000	18,700	457
22	Liquors, malt. (See also Bottling.)	3	10,667	236,000	47,727
23	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts.)	5	655	100,805	5,316
24	Masonry, brick and stone. (See also Plastering and stuccowork.)	12	300	29,293	7,833
25	Millinery, custom work	10	42,325	38,700	4,944
26	Monuments and tombstones. (See also Marble and stone work.)	4	1,736	11,285	909
27	Painting and paper hanging	21	2,036	23,485	1,146
28	Paving and paving materials	5	1,209	11,025	5,761
29	Photography	7	15,356	19,775	3,565
30	Plastering and stuccowork. (See also Masonry, brick and stone.)	6	5,454	4,334	1,140
31	Plumbing and gas fitting	7	13,075	50,084	2,750
32	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	3	7,600	19,500	776
33	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	10	34,463	146,844	15,634
34	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	3	5,000	10,875	506
35	Silk and silk goods	3	260,250	667,500	38,112
36	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	9	15,756	60,575	3,369
37	Tobacco, cigars and cigarettes	29	47,550	147,738	30,361
38	Watch, clock, and jewelry repairing	5	4,289	6,980	537
39	All other industries (a)	51	98,600	1,785,668	81,075

a Embraces awnings, tents, and sails. 1; bookbinding and blank-book making, 2; boot and shoe uppers, 1; boxes, cigar, 2; boxes, fancy and paper, 1; brass castings and brass finishing, 1; bridges, 1; carriage and wagon materials, 1; clay and pottery products, 1; clothing, men's, factory product, 2; collars and burial cases, trimming and finishing, 2; coffins, burial cases, and undertakers' goods, 1; cutlery and edge tools, 2; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; dyeing and finishing textiles, 1; files, 1; furnishing goods, men's, 1; furniture, chairs, 2; gas, illuminating and heating,

ALTOONA, PA.

1	All industries.....	208	593,595	7,955,423	241,121
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	15	14,055	19,569	1,194
3	Boots and shoes, custom work and repairing.....	13	17,875	8,712	1,078
4	Bread and other bakery products	10	90,500	49,743	5,702
5	Carpentering	7	2,880	82,025	21,843
6	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	6	8,350	14,945	894
7	Clothing, men's, custom work and repairing	11	73,900	62,311	11,234
8	Clothing, women's, dressmaking	11	15,850	1,261	1,215
9	Liquors, malt	5	22,000	170,099	27,582
10	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts.)	9	63,650	233,578	12,635
11	Millinery, custom work	10	46,200	39,111	4,508

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ALLENTOWN, PA.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
5,833	\$2,313,508	540	\$402,626	3,905	\$1,489,385	1,388	\$421,497	\$5,162,011	\$8,876,565
27	11,409	11	4,440	16	6,969	.....	.....	5,323	25,442
47	17,740	23	9,584	4	1,778	20	6,378	11,852	34,678
396	161,723	25	20,652	140	50,168	231	90,903	253,847	488,079
23	12,012	5	4,420	18	7,592	.....	.....	55,051	86,216
115	49,348	32	21,584	76	26,030	7	1,725	102,674	174,619
225	47,476	6	2,900	100	40,480	20	4,096	22,055	108,510
26	8,530	4	2,392	8	2,684	14	3,454	12,718	27,677
173	97,086	19	14,171	153	82,905	1	10	134,141	326,825
3	830	2	710	.....	.....	1	120	2,354	4,360
46	22,315	7	4,543	39	17,772	.....	.....	17,464	40,455
117	35,766	21	11,578	11	4,643	85	19,545	47,307	99,392
36	5,873	5	1,956	31	3,917	.....	.....	1,038	11,502
25	10,196	10	5,008	15	5,188	.....	.....	17,711	30,840
19	4,780	8	4,280	1	350	1	150	2,008	8,648
499	244,105	28	33,388	471	210,717	.....	.....	354,965	716,193
36	13,163	8	4,888	27	7,755	1	520	30,482	52,927
452	176,374	30	25,482	347	116,219	75	34,673	164,022	428,855
159	20,896	7	3,775	63	8,978	89	8,143	32,352	66,916
605	263,392	16	21,220	589	242,172	.....	.....	1,016,279	1,475,827
6	2,600	.....	.....	6	2,600	.....	.....	17,590	21,105
33	27,020	5	6,255	28	21,374	.....	.....	82,402	169,000
99	50,730	7	5,190	92	45,540	.....	.....	55,116	126,600
170	83,047	13	9,650	157	73,397	.....	.....	21,412	120,855
64	10,910	20	8,643	44	8,267	.....	.....	35,208	62,960
14	7,824	4	2,899	10	4,925	.....	.....	9,119	18,000
78	27,225	20	8,850	56	17,300	2	1,600	11,539	45,471
62	20,614	6	4,425	56	16,219	.....	.....	13,836	61,800
23	10,264	9	5,340	11	3,874	3	1,050	22,226	56,015
39	19,270	9	5,895	28	13,300	2	75	3,869	28,800
59	23,808	14	10,973	36	12,835	.....	.....	36,580	69,875
10	4,360	1	750	9	3,610	.....	.....	4,385	15,051
127	50,402	18	14,374	106	34,660	3	1,428	21,475	124,040
18	9,484	3	1,900	15	7,581	.....	.....	14,433	24,665
946	292,495	12	27,003	405	96,955	529	168,537	1,165,920	1,684,342
52	24,464	14	8,723	38	15,741	.....	.....	30,841	67,000
170	63,805	25	17,093	24	5,007	121	41,765	98,932	208,007
15	8,033	4	2,853	11	5,180	.....	.....	1,114	10,350
837	367,350	89	64,893	574	264,532	174	37,925	1,172,311	1,733,598

1; hairwork, 1; hardware, 1; hats and caps, not including wool hats, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1; lime and cement, 1; lumber and other mill products from logs or bolts, 2; marble and stone work, 2; paints, 1; patent medicines and compounds, 2; saddlery and harness, 2; shirts, 1; slaughtering and meat packing, wholesale, 2; stencils and brands, 1; tools, not elsewhere specified, 1; umbrellas and canes, 1; washing machines and clothes wringers, 1; wire, 1; woolen goods, 1.

ALTOONA, PA.

6,561	3,684,096	345	243,798	3,701	1,696,068	2,515	1,744,230	6,133,222	10,407,010	1
31	10,180	13	9,756	17	6,324	1	100	7,174	20,768	2
24	12,681	12	7,282	1	400	11	4,969	7,452	23,530	3
38	16,410	12	6,588	26	9,822	.....	.....	51,414	88,155	4
116	65,403	12	9,576	104	55,827	.....	.....	110,287	218,100	5
32	15,998	10	7,796	20	7,602	2	600	7,816	29,186	6
118	49,884	14	12,741	20	5,983	84	31,160	55,461	131,504	7
33	7,764	14	5,089	19	2,675	.....	.....	118	11,770	8
39	24,860	7	6,600	32	18,260	.....	.....	41,917	146,869	9
251	144,290	19	10,595	232	124,095	.....	.....	222,030	425,670	10
40	14,058	17	8,090	23	5,968	.....	.....	39,823	78,920	11

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ALTOONA, PA.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
12	Monuments and tombstones. (See also Marble and stone work.)	3	\$4,935	\$12,000	\$885
13	Painting and paper hanging	14	20,880	50,055	2,888
14	Photography	6	22,580	10,510	1,760
15	Plastering and stuccowork. (See also Masonry, brick and stone.)	4	1,050	20,507	384
16	Plumbing and gas fitting	8	24,500	44,625	2,487
17	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making; Printing and publishing, book and job.)	11	22,640	100,153	19,081
18	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	12	28,730	64,020	2,707
19	Saddlery and harness	5	6,075	13,253	682
20	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	3	5,000	6,595	605
21	Tobacco, cigars and cigarettes	5	10,500	8,087	5,230
22	Watch, clock, and jewelry repairing	6	11,180	5,020	932
23	All other industries (a)	34	140,265	6,939,346	114,905

a Embraces bookbinding and blank-book making, 1; brick and tile, 1; brooms and brushes, 2; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; coffins and burial cases, trimming and finishing, 1; confectionery, 2; cooperage, 1; dentistry, mechanical, 1; dyeing and cleaning, 1; flouring and grist mill products, 2; foundry and machine shop products, 1; furniture, cabinetmaking, repairing and upholstering, 2; furniture, factory product, 1; gas,

ATLANTA, GA.

1	All industries.....	410	976,274	9,508,962	987,623
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	56	38,662	17,765	5,828
3	Boots and shoes, custom work and repairing	51	35,054	8,366	5,067
4	Bread and other bakery products	10	74,200	158,640	29,447
5	Brick and tile. (See also Clay and pottery products.)	3	-----	24,193	205
6	Carpentering	12	10,300	113,172	5,890
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	8	42,000	68,800	5,601
8	Cars and general shop construction and repairs by steam railroad companies	3	-----	367,306	-----
9	Clothing, men's, custom work and repairing	10	47,738	121,982	10,204
10	Clothing, women's, dressmaking	12	10,800	4,113	1,595
11	Coffins and burial cases, trimming and finishing	7	11,392	17,075	1,825
12	Cotton goods	3	-----	1,995,535	46,122
13	Dentistry, mechanical	11	25,545	10,565	3,284
14	Dyeing and cleaning	4	6,400	6,425	1,143
15	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	14	58,425	941,753	73,114
16	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	9	10,273	8,915	1,541
17	Furniture, factory product	4	9,115	345,143	13,083
18	Lock and gun smithing	4	3,067	1,865	431
19	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing.)	15	55,200	470,276	24,993
20	Masonry, brick and stone. (See also Plastering and stuccowork.)	4	3,077	78,500	3,350
21	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	3	33,125	170,500	17,360
22	Millinery, custom work	8	17,077	9,155	2,501
23	Monuments and tombstones. (See also Marble and stone work.)	3	6,433	9,450	1,057
24	Painting and paper hanging	9	9,038	12,125	1,870
25	Patent medicines and compounds	7	30,665	218,146	204,322
26	Photography	5	6,400	6,315	956
27	Plumbing and gas fitting	4	13,933	44,050	2,180
28	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	17	75,550	286,275	23,219
29	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	26	69,730	247,375	115,788
30	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	3	1,167	3,700	323
31	Saddlery and harness	7	24,350	32,280	3,911
32	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	11	12,175	187,300	7,384
33	Watch, clock, and jewelry repairing	8	11,775	15,950	2,105
34	All other industries (a)	70	223,608	3,615,892	280,664

a Embraces agricultural implements, 1; awnings, tents, and sails, 1; bags, paper, 2; baking and yeast powders, 1; baskets and rattan and willow ware, 1; bookbinding and blank-book making, 1; bottling, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brooms and brushes, 2; chemicals, 1; clay and pottery products, 1; clothing, men's, factory product, 2; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 2; confectionery, 1; cooperage, 1; cotton, compressing, 1; cutlery and edge tools, 1; electrical apparatus and supplies, 1; fertilizers, 1; flouring and grist mill products, 2; furnishing goods, men's, 1; gas, illuminating and heating, 2; glass, 2; hand stamps, 1; hats and caps, not including wool hats, 1; ice, artificial, 1; ironwork, architectural and ornamental, 2; liquors, malt, 1; lithographing and

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ALTOONA, PA.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
10	\$7,230	1	\$780	9	\$6,450	.....	.....	\$9,800	\$22,000 12
93	52,677	6	3,931	87	48,746	.....	.....	44,866	118,844 13
17	8,396	8	5,742	9	3,154	.....	.....	4,407	18,459 14
38	20,300	7	4,440	31	15,920	.....	.....	6,183	35,233 15
59	32,119	7	6,360	49	24,999	3	\$780	40,720	98,563 16		
136	58,602	22	17,008	95	28,884	19	12,710	24,876	121,325 17		
48	24,956	13	8,760	35	16,196	.....	.....	32,654	86,823 18
12	6,037	5	3,070	7	2,358	.....	.....	3,371	12,230 19
11	3,873	3	1,667	8	2,206	.....	.....	2,637	8,785 20
25	11,327	7	4,938	4	438	14	5,951	14,103	37,495 21		
14	8,020	6	5,780	8	4,240	.....	.....	1,409	13,700 22
5,376	3,082,471	130	.89,000	2,803	1,304,921	2,381	1,087,950	5,398,635	8,739,901 23		

illuminating and heating, 1; iron and steel, 1; lock and gunsmithing, 1; looking-glass and picture frames, 2; lumber and other mill products from logs or bolts, 2; marble and stone work, 1; masonry, brick and stone, 2; mineral and soda waters, 1; paving and paving materials, 1; printing and publishing, book and job, 1; silk and silk goods, 1; umbrellas and canes, 1; washing machines and clothes wringers, 1.

ATLANTA, GA.

8,084	3,800,955	727	603,070	7,271	2,952,653	686	253,632	5,914,571	13,074,037	1
116	49,563	32	15,097	84	34,466	.....	.....	27,106	94,990	2
122	46,851	33	13,951	89	32,904	.....	.....	28,765	92,001	3
153	60,341	16	13,939	137	46,402	.....	.....	270,424	423,285	4
82	12,631	3	1,041	79	11,590	.....	.....	3,642	18,475	5
350	188,264	12	9,930	334	157,384	4	2,000	241,697	404,858	6
108	60,840	7	9,760	99	50,166	2	1,014	59,244	139,770	7
820	451,709	21	18,060	799	433,709	.....	.....	310,224	762,952	8
197	132,640	26	21,910	86	50,490	85	51,246	347,308	803,211	9
58	19,933	12	5,976	42	13,612	4	345	25,590	51,500	10
18	9,868	7	4,239	11	5,029	.....	.....	41,000	62,930	11
1,092	262,077	30	27,200	783	172,289	279	62,528	722,470	1,140,004	12
17	14,359	13	12,884	3	1,075	1	400	5,050	39,900	13
28	11,796	9	4,178	19	7,618	.....	.....	2,243	15,950	14
622	309,174	38	42,308	584	266,866	.....	.....	269,250	790,875	15
31	10,976	5	2,934	26	8,042	.....	.....	11,704	30,900	16
393	203,256	13	15,400	380	187,856	.....	.....	231,737	540,028	17
6	3,289	5	2,769	1	520	.....	.....	1,180	6,160	18
589	263,877	27	27,160	502	236,717	.....	.....	381,990	777,124	19
343	82,396	3	3,466	340	78,930	.....	.....	123,660	232,800	20
162	58,313	12	10,500	110	38,838	40	8,975	206,150	344,000	21
58	30,026	5	3,520	53	26,506	.....	.....	63,900	121,300	22
19	12,386	3	2,420	16	9,960	.....	.....	13,000	32,600	23
88	44,742	9	6,214	69	34,578	10	3,050	55,459	112,917	24
102	51,001	26	25,883	76	25,118	.....	.....	148,825	720,044	25
10	5,174	3	1,768	7	3,406	.....	.....	4,431	12,700	26
105	52,502	6	5,256	99	47,338	.....	.....	135,000	205,892	27
358	172,448	60	44,028	296	127,380	2	1,040	176,595	445,019	28
339	218,497	58	52,823	236	137,034	45	28,640	187,140	741,333	29
31	11,050	2	1,300	20	9,750	.....	.....	19,305	34,250	30
44	21,646	6	3,816	38	17,830	.....	.....	38,000	76,017	31
255	111,477	29	22,081	226	89,896	.....	.....	127,333	312,250	32
21	17,373	7	5,205	14	12,168	.....	.....	5,435	28,892	33
1,947	828,324	189	107,888	1,544	567,542	214	92,894	1,629,599	3,388,901	34

engraving, 1; looking-glass and picture frames, 2; marble and stone work, 2; millinery and lace goods, 2; mineral and soda waters, 1; musical instruments, pianos and materials, 2; paints, 1; paving and paving materials, 1; perfumery and cosmetics, 1; plastering and stuccowork, 1; saws, 1; scales and balances, 1; shirts, 1; showcases, 2; soap and caustics, 1; stencils and brands, 1; stereotyping and electrotyping, 1; tobacco, chewing, smoking, and snuff, 1; tobacco, cigars and cigarettes, 2; tools, not elsewhere specified, 1; trunks and valises, 2; vinegar and cider, 2; wirework, including wire rope and cable, 1; woolen goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
AUBURN, N. Y.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
1	All industries.....	258	\$1,141,414	\$11,123,238	\$1,939,705
2	Agricultural implements.....	5	431,900	6,033,243	912,433
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	16	17,656	28,395	3,648
4	Boots and shoes, custom work and repairing.....	9	8,867	7,485	1,458
5	Boots and shoes, factory product.....	4		409,515	27,546
6	Bread and other bakery products.....	7	11,511	45,050	2,740
7	Carpentering.....	10	15,133	31,525	2,985
8	Carriage and wagon materials.....	3	47,840	388,081	18,080
9	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	7	5,040	321,595	16,969
10	Clothing, men's, custom work and repairing.....	12	32,011	38,015	5,858
11	Clothing, women's, dressmaking.....	32	52,789	18,019	11,321
12	Confectionery.....	4	7,675	7,015	1,264
13	Dentistry, mechanical.....	3	3,878	5,975	1,170
14	Flouring and grist mill products.....	3	2,500	107,100	7,360
15	Foundry and machine shop products.....	4	21,500	240,107	35,707
16	Furniture, cabinetmaking, repairing and upholstering.....	5	4,000	29,040	1,916
17	Liquors, malt.....	3		432,100	27,711
18	Looking-glass and picture frames.....	3	8,338	7,210	1,235
19	Lumber, planing mill products, including sash, doors, and blinds.....	4	25,000	90,735	6,563
20	Masonry, brick and stone.....	4	2,000	38,850	2,252
21	Milinery, custom work.....	9	43,889	58,580	8,646
22	Painting and paper hanging.....	8	7,844	23,477	1,703
23	Photography.....	8	30,275	24,517	9,775
24	Plumbing and gas fitting.....	3	2,500	46,900	1,350
25	Printing and publishing, newspapers and periodicals. (See also Book-binding and blank-book making; Printing and publishing, book and job.)	5	4,938	89,800	8,265
26	Saddlery and harness.....	5	21,222	36,190	4,826
27	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	8	13,200	43,750	2,343
28	Tobacco, cigars and cigarettes. (See also Tobacco, chewing, smoking, and snuff.)	18	22,156	23,293	7,302
29	Watch, clock, and jewelry repairing.....	7	15,333	5,150	1,600
30	All other industries (a).....	49	282,924	2,471,526	205,067

^a Embraces awnings, tents, and sails, 1; bookbinding and blank-book making, 1; boxes, cigar, 1; boxes, fancy and paper, 1; brick and tile, 1; buttons, 1; carpets and rugs, other than rag, 1; cheese, butter, and condensed milk, factory product, 1; chemicals, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 1; coffins and burial cases, trimming and finishing, 2; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; electric light and power, 1; files, 1; gas, illuminating and heating, 1; hairwork, 1; hardware, 1; hosiery and knit goods, 2; iron and steel, 2; lock and

AUGUSTA, GA.

1	All industries.....	440	655,915	7,770,688	526,539
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	16	11,150	16,657	1,750
3	Boots and shoes, custom work and repairing.....	43	24,580	4,280	3,602
4	Bread and other bakery products.....	13	37,840	23,256	4,866
5	Brick and tile. (See also Clay and pottery products.).....	3	3,500	59,000	1,000
6	Carpentering.....	33	17,190	83,020	6,010
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	9	37,500	92,000	8,507
8	Clothing, men's, custom work and repairing.....	12	41,475	165,388	13,530
9	Clothing, men's, factory product.....	3	1,000	18,625	715
10	Clothing, women's, dressmaking.....	126	114,470	15,145	14,748
11	Confectionery.....	8	19,500	15,700	1,775
12	Cotton goods.....	9		5,337,362	240,161
13	Dyeing and cleaning.....	5	11,850	3,500	1,450
14	Flouring and grist mill products.....	3	11,000	115,500	6,382
15	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	8	5,500	12,300	1,047
16	Hand stamps.....	3	4,500	3,750	594
17	Lock and gun smithing.....	5	7,725	4,325	1,241
18	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts.)	4	25,000	213,711	32,523
19	Marble and stone work.....	3	7,500	22,400	1,377
20	Masonry, brick and stone. (See also Plastering and stuccowork.)	16	1,450	103,980	4,395
21	Mattresses and spring beds. (See also Furniture.)	6	3,350	2,680	664

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

AUBURN, N. Y.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.	1			
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
6,166	\$2,628,365	445	\$407,691	4,320	\$1,652,742	1,401	\$567,932	\$0,783,971	\$0,634,785	1			
1,841	751,408	50	74,994	988	281,921	704	394,493	702,530	3,615,572	2			
39	20,437	16	9,444	23	10,993	.....	.....	8,625	38,850	3	
15	8,324	9	5,708	1	156	5	2,460	3,814	13,970	4			
471	152,976	19	17,038	414	112,838	38	22,500	321,502	506,624	5			
33	18,298	11	6,740	22	11,558	.....	.....	58,036	116,511	6	
103	66,820	10	8,790	93	58,030	.....	.....	78,120	167,679	7	
148	77,760	5	7,600	188	70,160	.....	.....	60,952	206,065	8	
160	87,766	18	18,284	89	40,315	62	29,107	100,341	243,720	9			
59	30,908	17	10,076	37	18,224	26	7,698	26,985	77,124	10			
173	50,078	38	19,511	133	30,442	2	125	113,855	187,986	11			
11	4,710	5	3,010	6	1,700	.....	.....	6,865	13,900	12	
4	2,740	4	2,740	.....	.....	.....	.....	1,440	5,600	13
15	8,655	2	1,255	13	7,400	.....	.....	161,490	190,160	14	
205	132,185	12	11,840	193	120,345	.....	.....	73,368	261,480	15	
33	19,016	11	9,304	21	9,428	1	286	10,400	35,900	16			
33	21,186	3	2,560	30	18,626	.....	.....	33,410	103,736	17	
5	3,414	1	780	4	2,034	.....	.....	8,555	15,700	18	
120	67,249	9	8,045	109	58,188	2	1,066	71,710	205,074	19			
225	178,088	7	8,280	218	169,808	.....	.....	63,268	269,854	20	
47	16,582	13	6,262	34	10,320	.....	.....	40,850	74,860	21	
72	42,213	11	10,334	61	31,879	.....	.....	16,665	46,644	22	
35	24,798	9	9,560	15	8,378	11	6,860	11,312	57,442	23			
26	16,729	4	4,512	22	12,217	.....	.....	43,410	66,200	24	
36	21,300	3	6,100	33	15,200	.....	.....	10,855	61,453	25	
41	21,210	8	6,780	8	3,930	25	10,500	19,755	46,140	26			
34	26,465	13	11,630	21	14,885	.....	.....	21,518	53,800	27	
35	14,860	20	9,898	12	4,240	3	722	7,899	32,090	28			
18	8,700	7	4,100	11	4,600	.....	.....	4,000	15,350	29	
2,105	733,400	101	111,910	1,571	529,429	433	92,055	1,633,391	2,795,286	30			

gunsmithing, 1; malt, 1; mineral and soda waters, 2; monuments and tombstones, 2; musical instruments, pianos and materials, 1; patent medicines and compounds, 2; printing and publishing, book and job, 2; pumps, not including steam pumps, 2; roofing and roofing materials, 1; saws, 1; shirts, 1; silk and silk goods, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; washing machines and clothes wringers, 2; woolen goods, 1; worsted goods, 2.

AUGUSTA, GA.

6,294	2,063,180	580	373,248	5,130	1,526,098	578	103,843	5,430,871	9,244,850	1
36	12,957	15	6,282	21	6,075	.....	.....	7,013	38,468	2
71	24,665	44	17,608	12	3,100	15	3,867	11,334	43,223	3
55	17,334	13	5,402	42	11,842	.....	.....	40,965	74,913	4
167	20,515	2	1,150	165	19,365	.....	.....	15,102	53,830	5
309	200,183	32	24,236	902	172,827	5	3,120	351,585	660,200	6
109	43,880	13	11,236	92	32,344	4	300	79,111	174,241	7
159	70,287	16	13,668	65	25,285	78	37,334	87,527	243,165	8
25	9,102	5	2,420	12	624	19	6,118	15,585	30,481	9
271	72,850	134	48,092	126	22,452	11	1,706	344,145	443,362	10
25	9,523	8	5,611	17	3,912	.....	.....	46,900	83,190	11
2,982	709,525	40	35,384	2,569	503,030	373	81,111	2,717,901	3,978,042	12
18	6,493	5	3,000	13	3,493	.....	.....	1,288	10,312	13
38	20,374	12	10,540	28	9,834	.....	.....	351,203	391,600	14
22	8,242	6	2,784	15	5,302	1	156	16,330	34,968	15
8	3,056	6	3,696	2	200	.....	.....	1,373	10,175	16
9	5,533	6	4,155	3	1,378	.....	.....	0,038	18,690	17
241	72,574	14	10,900	227	61,614	.....	.....	147,150	283,900	18
30	20,604	5	6,724	25	13,970	.....	.....	26,850	64,050	19
305	141,920	18	10,740	287	122,189	.....	.....	257,000	450,794	20
17	6,570	6	3,076	8	2,166	3	728	23,510	49,898	21

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
AUGUSTA, GA.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
22	Millinery, custom work	11	\$38,400	\$23,230	\$4,556
23	Musical instruments and materials, not specified	4	10,625	4,050	1,090
24	Painting and paper hanging	24	10,315	16,235	1,990
25	Photography	6	16,295	4,272	1,927
26	Plastering and stuccowork. (See also Masonry, brick and stone.)	5	3,100	2,550	583
27	Plumbing and gas fitting	4	10,400	23,925	1,578
28	Printing and publishing, newspapers and periodicals. (See also Printing and publishing, book and job.)	8	47,100	78,675	31,871
29	Saddlery and harness	3	4,000	2,715	509
30	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	5	20,500	27,850	2,997
31	Umbrellas and canes	3	2,550	255	257
32	Watch, clock, and jewelry repairing	11	24,950	22,640	2,877
33	All other industries (a)	33	80,760	1,256,162	120,881

a Embraces bridges, 1; ears and general shop construction and repairs by steam railroad companies, 2; clay and pottery products, 1; coffins and burial cases, trimming and finishing, 2; cooperage, 2; cotton, compressing, 1; dentistry, mechanical, 2; fancy articles, not elsewhere specified, 2; fertilizers, 2; food preparations, 1; foundry and machine shop products, 2; gas,

BALTIMORE, MD.

1	All industries	5,205	16,658,875	92,723,677	8,771,809
2	Agricultural implements	3	20,040	76,600	9,634
3	Artificial feathers and flowers. (See also Millinery and lace goods.)	3	5,250	2,145	438
4	Awnings, tents, and sails	22	76,260	110,915	8,160
5	Baking and yeast powders	4	4,055	149,850	2,814
6	Baskets and rattan and willow ware	17	11,610	12,908	1,316
7	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	187	180,935	345,912	24,886
8	Bluing	3	3,775	754	341
9	Bookbinding and blank-book making. (See also Printing and publishing.)	16	70,550	90,805	7,361
10	Boot and shoe uppers	21	32,000	70,340	3,903
11	Boots and shoes, custom work and repairing	714	587,800	575,302	64,185
12	Boots and shoes, factory product	27	137,385	848,465	30,578
13	Bottling. (See also Liquors, malt; Mineral and soda waters.)	5	27,375	29,900	2,822
14	Boxes, cigar	10	7,400	55,000	2,265
15	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	12	83,800	149,708	15,399
16	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	14	93,550	368,333	26,696
17	Brass castings and brass finishing. (See also Plumbers' supplies.)	7	217,067	1,472,361	30,652
18	Bread and other bakery products	351	432,275	1,031,715	83,637
19	Brick and tile. (See also Clay and pottery products.)	26	469,700	1,941,080	137,786
20	Brooms and brushes	25	70,320	246,817	17,630
21	Carpentering	222	124,000	610,110	46,190
22	Carpets, rag	25	19,718	38,810	3,142
23	Carriage and wagon materials	4	16,550	100,174	9,022
24	Carriages and sleds, children's	3	47,300	54,202	8,532
25	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	75	217,865	539,204	31,710
26	Cars and general shop construction and repairs by street railroad companies	3	750	49,151	277
27	Chemicals. (See also Fertilizers; Paints; Varnish.)	19	187,500	1,065,216	75,900
28	China decorating	3	4,355	1,722	407
29	Clay and pottery products. (See also Brick and tile.)	10	9,665	492,957	8,804
30	Clothing, men's, custom work and repairing	260	655,900	1,186,251	78,320
31	Clothing, men's, factory product	125	2,114,920	9,782,643	406,166
32	Clothing, women's, dressmaking	179	211,410	201,878	24,087
33	Clothing, women's, factory product	21	266,440	478,700	44,187
34	Coffee and spice, roasting and grinding	13	79,850	349,060	18,695
35	Coffins and burial cases, trimming and finishing	67	100,400	175,827	18,174
36	Coffins, burial cases, and undertakers' goods	8	30,000	67,599	6,810
37	Confectionery	98	198,000	908,474	98,442
38	Cooperage	42	72,200	263,004	16,073
39	Corsets	5	7,115	12,480	808
40	Cutlery and edge tools. (See also Files; Saws; Tools, not elsewhere specified.)	15	45,500	16,940	4,388
41	Dentistry, mechanical	42	60,485	82,022	6,288

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

AUGUSTA, GA.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
34	\$9,330	8	\$4,214	26	\$5,125	.....	.....	\$20,542	\$49,500 22
15	9,224	7	5,500	7	2,944	1	\$780	1,975	13,175 23
117	59,231	29	19,500	85	38,951	3	780	53,910	135,933 24
15	7,708	9	5,544	5	2,060	1	104	6,634	19,500 25
21	6,074	3	1,144	12	3,900	6	1,080	2,804	12,100 26
58	30,970	6	5,230	52	25,740	.....	.....	42,810	129,000 27
153	89,244	18	13,112	102	59,668	33	16,404	45,576	203,958 28
12	3,652	4	2,080	8	1,572	.....	.....	3,110	8,100 29
37	23,040	7	8,460	30	14,580	.....	.....	27,140	65,273 30
4	1,276	3	1,120	1	150	.....	.....	873	3,175 31
25	17,766	10	7,604	15	10,162	.....	.....	16,985	44,405 32
816	322,413	76	62,680	715	249,482	25	10,245	659,702	1,422,208 33

illuminating and heating, 1; ice, artificial, 2; liquors, malt, 1; looking-glass and picture frames, 1; lumber and other mill products from logs or bolts, 1; mineral and soda waters, 2; oil, cottonseed and cake, 1; printing and publishing, book and job, 2; roofing and roofing materials, 2; shirts, 1; tobacco, cigars and cigarettes, 1.

BALTIMORE, MD.

83,745	35,014,854	7,256	6,019,354	51,902	23,009,957	24,527	6,885,543	73,770,001	141,723,599	1
55	26,394	.....	.....	38	18,438	17	7,056	17,210	62,875	2
6	2,050	4	2,350	2	300	.....	.....	1,248	5,200	3
138	84,776	24	10,244	107	64,162	7	1,370	147,409	278,312	4
73	25,802	8	5,572	64	19,980	1	250	126,760	192,440	5
46	17,860	19	7,980	16	6,837	10	3,034	12,331	38,362	6
643	346,513	205	134,520	411	201,684	27	10,300	182,941	704,134	7
12	2,267	3	1,018	8	1,144	1	75	3,455	7,898	8
164	71,890	16	12,304	138	56,986	10	2,600	42,319	160,368	9
92	46,018	26	21,116	50	21,646	16	3,250	87,550	170,106	10
1,500	631,780	700	332,346	387	147,069	410	151,765	420,030	1,425,630	11
1,228	516,648	71	61,644	566	108,482	501	256,522	716,852	1,519,261	12
34	22,500	8	9,500	26	13,000	.....	.....	103,852	155,100	13
111	41,098	9	7,590	64	23,493	38	10,015	55,901	133,652	14
459	105,500	17	12,056	230	55,104	212	38,840	116,046	280,100	15
640	272,356	17	22,441	518	203,195	105	46,720	466,222	894,226	16
1,187	603,056	54	128,328	1,133	534,728	.....	.....	785,045	1,903,850	17
1,491	605,824	439	202,008	1,049	402,958	3	768	2,018,545	3,394,575	18
1,814	540,102	40	36,195	1,501	430,984	273	72,923	146,407	1,055,598	19
363	120,294	23	14,028	238	77,813	102	37,453	312,561	572,896	20
1,482	905,016	188	150,532	1,053	688,585	193	65,890	997,172	2,420,309	21
62	22,556	26	11,006	15	4,530	21	6,930	46,990	80,745	22
57	24,470	3	3,000	52	20,430	2	1,040	48,045	106,100	23
69	27,359	12	6,320	32	13,050	25	7,389	60,175	113,428	24
656	336,237	80	66,490	524	247,363	52	22,384	249,184	781,474	25
71	45,085	1	382	70	45,283	.....	.....	24,549	76,477	26
515	223,037	79	75,072	432	146,765	4	1,200	761,201	1,388,470	27
8	4,426	3	2,292	5	2,134	.....	.....	612	6,250	28
617	261,713	17	16,540	571	230,067	29	15,106	116,010	500,025	29
1,830	871,401	207	220,970	589	285,650	944	304,781	928,264	2,421,776	30
13,094	4,178,971	394	412,301	4,311	1,808,558	8,389	1,958,112	8,123,073	15,032,924	31
768	281,858	188	87,155	490	122,221	90	22,482	296,508	658,188	32
605	205,578	30	25,222	187	70,456	388	108,900	447,026	870,681	33
130	73,455	37	30,644	80	34,719	13	2,062	1,448,494	1,602,290	34
151	86,075	71	63,098	75	62,096	5	481	162,631	370,372	35
68	35,187	17	10,932	46	21,255	5	3,000	42,103	107,164	36
854	278,032	139	75,809	600	191,815	55	10,918	1,108,309	1,861,599	37
518	268,050	40	28,014	265	125,090	213	104,946	505,398	883,420	38
38	8,419	3	1,070	13	3,053	22	3,696	7,443	26,490	39
41	23,020	16	12,764	25	10,256	.....	.....	10,139	49,952	40
59	48,606	44	43,400	12	4,694	3	552	29,812	119,461	41

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BALTIMORE, MD.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
42	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.)	8	\$13,900	\$41,575	\$4,287
43	Dyeing and cleaning.....	43	64,800	69,573	7,733
44	Electroplating.....	8	22,575	16,047	2,286
45	Engraving and dissinking.....	7	9,800	7,425	1,318
46	Engraving, steel, including plate printing. (See also Lithographing and engraving; Photolithographing and engraving.)	7	7,035	3,010	655
47	Engraving, wood.....	3	3,880	988	340
48	Fancy articles, not elsewhere specified.....	6	22,775	27,150	2,720
49	Fertilizers. (See also Chemicals.).....	25	184,400	3,978,947	197,016
50	Files. (See also Cutlery and edge tools.).....	3	5,000	5,200	972
51	Flavoring extracts.....	4	14,000	15,700	1,563
52	Flooring and grist mill products.....	11	314,405	1,008,038	152,949
53	Food preparations. (See also Fruits and vegetables, canning and preserving; Oysters, canning and preserving.)	4	18,250	56,180	4,810
54	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	65	518,670	4,523,007	281,203
55	Fruits and vegetables, canning and preserving. (See also Food preparations; Pickles, preserves, and sauces.)	33	193,760	2,004,300	90,052
56	Fur goods. (See also Hats and caps, not including wool hats.).....	9	77,500	97,805	7,978
57	Furnishing goods, men's. (See also Shirts.).....	32	179,185	380,706	220,500
58	Furniture, cabinetwork, repairing and upholstering. (See also Mattresses and spring beds.).....	88	181,800	287,804	24,453
59	Furniture, chairs.....	4	7,225	352,637	23,305
60	Furniture, factory product.....	22	192,000	800,807	50,957
61	Glass.....	9	-----	737,611	31,602
62	Glass, cutting, staining, and ornamenting.....	6	18,950	12,475	1,727
63	Gold and silver, leaf and foil.....	4	2,000	23,990	1,655
64	Grease and tallow. (See also Soap and candles.).....	4	16,225	113,370	3,242
65	Hairwork.....	8	21,750	12,261	1,910
66	Hand stamps.....	5	84,100	61,750	7,710
67	Hats and caps, not including wool hats. (See also Fur goods.).....	18	515,000	724,457	80,072
68	Hosiery and knit goods. (See also Cotton goods; Woollen goods.).....	5	3,100	5,552	210
69	Ice, artificial.....	3	-----	597,175	4,540
70	Instruments, professional and scientific.....	7	23,050	45,970	3,601
71	Iron and steel.....	3	-----	532,650	25,823
72	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.).....	5	8,665	92,508	1,993
73	Japaning.....	3	8,000	1,505	706
74	Jewelry. (See also Watch, clock, and jewelry repairing.).....	8	53,400	249,335	7,415
75	Labels and tags.....	3	19,000	49,452	8,463
76	Leather, tanned and curried.....	12	23,500	203,788	11,586
77	Lime and cement.....	5	20,000	30,465	2,722
78	Liquors, distilled.....	5	18,750	1,402,475	1,457,220
79	Liquors, malt. (See also Bottling.).....	24	-----	4,455,071	947,303
80	Lithographing and engraving. (See also Engraving, steel, including plate printing; Photolithographing and engraving; Printing and publishing.).....	4	71,000	314,800	22,410
81	Lock and gun smithing.....	26	39,088	34,216	4,333
82	Looking-glass and picture frames.....	32	200,600	807,052	54,599
83	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.).....	29	208,045	1,029,101	114,575
84	Malt. (See also Liquors, malt.).....	3	30,660	438,857	15,000
85	Mantels, slate, marble, and marbleized.....	4	19,350	46,575	3,005
86	Marble and stone work. (See also Monuments and tombstones.).....	20	86,510	1,042,138	162,983
87	Masonry, brick and stone. (See also Plastering and stuccowork.).....	122	67,520	3,011,101	101,007
88	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.).....	14	55,450	68,638	8,008
89	Millinery and lace goods. (See also Artificial feathers and flowers.).....	6	32,500	59,075	5,422
90	Millinery, custom work.....	94	210,000	330,713	33,878
91	Mineral and soda waters. (See also Bottling.).....	13	10,000	110,185	4,095
92	Models and patterns.....	8	20,500	21,505	1,805
93	Monuments and tombstones. (See also Marble and stone work.).....	26	20,435	122,319	6,909
94	Musical instruments and materials, not specified.....	7	11,400	4,590	944
95	Musical instruments, organs and materials.....	4	21,375	27,713	2,052
96	Musical instruments, pianos and materials.....	4	131,350	1,063,987	128,460

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BALTIMORE, MD.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
26	\$8,645	7	\$5,800	15	\$2,795	4	\$50	\$2,513	\$24,311 42		
131	62,520	43	20,908	87	35,366	1	260	17,183	136,508 43		
38	20,293	10	8,420	26	10,313	2	1,560	8,885	33,500 44		
14	10,138	2	2,820	11	6,518	1	800	1,361	17,878 45		
18	9,288	7	6,168	11	3,120	—	—	1,246	17,075 46		
5	4,214	3	3,850	2	364	—	—	468	8,314 47		
43	18,120	5	2,520	38	10,600	—	—	28,150	69,400 48		
638	399,741	87	126,586	540	272,405	2	750	2,566,877	3,957,345 49		
8	5,076	4	2,580	4	2,496	—	—	2,350	9,600 50		
14	6,356	5	3,300	9	8,056	—	—	15,165	34,000 51		
210	172,548	54	60,348	172	102,020	14	4,180	2,775,780	3,285,115 52		
30	12,964	6	3,224	24	9,740	—	—	85,810	132,738 53		
3,430	1,837,450	214	227,891	2,836	1,458,574	380	150,985	1,703,715	4,718,180 54		
6,280	1,280,711	85	115,628	2,483	800,330	3,712	364,744	3,514,218	5,722,552 55		
105	34,290	14	7,892	91	26,398	—	—	78,918	147,600 56		
1,036	296,583	42	40,148	653	194,463	341	61,972	769,376	1,402,300 57		
313	167,863	87	54,890	218	110,223	8	2,750	281,680	592,242 58		
270	103,506	21	17,684	200	69,412	40	16,500	288,150	585,030 59		
1,101	544,190	56	64,464	778	354,790	268	194,936	644,881	1,471,389 60		
1,184	596,301	13	7,936	784	165,397	387	423,568	238,123	1,008,047 61		
23	16,064	7	7,344	16	8,720	—	—	12,460	41,104 62		
71	19,994	2	1,940	47	12,974	22	5,080	57,017	98,835 63		
29	15,405	7	5,300	21	10,005	1	100	187,424	220,735 64		
28	7,480	5	2,184	18	4,360	3	936	9,245	24,313 65		
56	23,380	7	4,648	49	18,782	—	—	21,040	71,954 66		
843	305,072	40	25,700	260	122,330	584	156,952	607,580	1,261,523 67		
10	2,576	2	900	3	1,280	5	396	4,857	9,631 68		
65	28,266	5	4,308	60	23,868	—	—	13,614	54,144 69		
25	15,378	10	6,278	14	8,580	1	520	2,556	30,203 70		
190	89,807	7	7,550	192	82,257	—	—	401,488	564,068 71		
91	63,513	6	6,500	85	46,813	—	—	58,043	150,738 72		
9	4,298	5	3,700	4	598	—	—	1,706	8,039 73		
77	53,985	10	14,254	67	39,131	—	—	138,658	260,650 74		
36	15,060	7	5,408	29	10,552	—	—	31,550	60,000 75		
205	90,185	21	19,700	176	65,004	8	5,415	335,798	455,818 76		
35	14,418	2	1,700	39	12,718	—	—	13,474	41,976 77		
146	94,824	2	8,000	144	86,824	—	—	683,861	2,513,560 78		
596	400,862	65	109,668	581	881,194	—	—	1,221,136	3,420,657 79		
107	125,766	19	35,990	178	89,770	—	—	98,731	316,352 80		
65	35,206	30	10,398	34	15,688	1	120	13,661	66,551 81		
543	206,870	53	37,407	470	162,126	20	7,337	513,147	941,066 82		
1,093	690,896	98	101,438	803	446,938	192	142,520	1,730,289	2,902,788 83		
94	41,877	4	5,000	90	36,871	—	—	287,346	395,517 84		
32	20,166	5	4,782	23	12,988	4	2,496	29,381	55,460 85		
568	387,020	50	57,517	516	327,453	2	2,056	581,802	1,391,328 86		
4,472	3,149,151	96	155,936	4,019	2,841,707	357	151,508	5,277,026	10,106,072 87		
92	35,862	12	8,893	61	21,755	19	5,214	101,101	198,815 88		
167	53,038	12	7,780	89	25,374	66	19,884	69,000	155,500 89		
411	162,685	87	54,728	280	100,011	35	7,916	292,223	627,918 90		
93	49,084	11	10,068	82	38,116	—	—	54,243	180,978 91		
31	19,083	12	9,728	17	8,847	2	508	8,110	37,730 92		
148	74,785	27	21,582	116	53,203	—	—	62,739	180,617 93		
18	6,702	7	4,580	5	1,872	1	250	2,948	13,686 94		
41	29,277	7	8,324	30	18,953	4	2,000	24,600	68,275 95		
737	532,160	88	77,280	474	269,880	225	185,000	406,592	1,291,165 96		

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BALTIMORE, MD.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
97	Optical goods.	3	\$44,060	\$20,535	\$5,277
98	Oysters, canning and preserving. (See also Food preparations.)	7	21,950	910,307	41,071
99	Painting and paper hanging.	220	261,285	403,021	33,710
100	Paints. (See also Chemicals; Varnish.)	11	50,110	400,108	17,083
101	Paper patterns.	3	3,300	1,607	301
102	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	20	81,230	894,405	290,300
103	Paving and paving materials.	5	10,200	32,680	2,516
104	Perfumery and cosmetics. (See also Druggists' preparations, not including prescriptions.)	4	19,735	13,058	2,013
105	Photography.	33	181,285	71,777	17,303
106	Photolithographing and engraving. (See also Lithographing and engraving.)	3	14,500	9,050	1,385
107	Pickles, preserves, and sauces. (See also Fruits and vegetables, canning and preserving.)	10	7,210	38,328	1,611
108	Plastering and stucco work. (See also Masonry, brick and stone.)	19	18,000	20,816	2,057
109	Plumbers' supplies. (See also Brass castings and brass finishing.)	4	101,400	295,810	25,276
110	Plumbing and gas fitting.	116	189,745	299,637	24,037
111	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	99	470,700	718,550	54,321
112	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	28	554,270	977,034	273,813
113	Refrigerators.	5	25,250	59,430	5,402
114	Regals and society banners and emblems.	3	28,575	36,150	2,700
115	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	43	70,000	150,498	14,668
116	Saddlery and harnesses.	100	211,910	500,508	50,411
117	Sewing machine repairing.	12	17,755	8,385	1,873
118	Shipbuilding.	19	461,335	1,256,422	91,343
119	Shirts. (See also Furnishing goods, men's.)	18	138,115	418,400	43,265
120	Show cases.	3	43,850	100,108	22,587
121	Silk and silk goods.	3	26,500	18,500	2,627
122	Silverware. (See also Plated and britannia ware.)	5	22,140	41,178	2,502
123	Slaughtering and meat packing, wholesale. (See also Sausage.)	14	195,335	958,521	75,232
124	Soap and candles. (See also Grease and tallow.)	4	4,000	426,252	29,517
125	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	188	406,075	2,335,429	131,575
126	Tobacco, chewing, smoking, and snuff.	6	42,425	2,203,619	928,023
127	Tobacco, cigars and cigarettes.	344	640,837	1,321,570	332,064
128	Tools, not elsewhere specified. (See also Cutlery and edge tools.)	6	10,000	62,146	1,839
129	Trunks and valises. (See also Leather goods.)	20	48,000	27,130	4,481
130	Type founding.	4	90,750	272,000	18,040
131	Umbrellas and canes.	15	50,980	161,115	7,884
132	Upholstery materials. (See also Woolen goods.)	6	115,000	1,138,729	24,772
133	Vinegar and cider.	4	10,800	66,457	3,026
134	Watch, clock, and jewelry repairing. (See also Jewelry.)	96	132,865	131,714	16,773
135	Window shades.	6	27,000	31,008	2,395
136	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	3	11,000	62,975	1,886
137	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	11	30,300	26,925	3,756
138	All other industries (a).	102	705,475	19,352,830	386,330

^a Embraces ammunition, 1; artificial limbs, 1; artists' materials, 1; babbitt metal and solder, 2; bags, other than paper, 2; bags, paper, 2; belting and hose, linen, 2; billiard tables and materials, 1; blacking, 1; boot and shoe findings, 1; brassware, 2; bridges, 2; buttons, 1; calcium lights, 1; cars and general shop construction and repairs by steam railroad companies, 2; cleansing and polishing preparations, 1; cloth, sponging and refinishing, 1; clothing, horse, 1; clothing, men's, factory product, buttonholes, 2; cordage and twine, 1; cotton goods, 2; cotton waste, 1; drug grinding, 1; dyeing and finishing textiles, 1; dyestuffs and extracts, 1; electrical apparatus and supplies, 2; enameling, 1; firearms, 2; fire extinguishers, chemical, 1; fireworks, 1; galvanizing, 1; gas and lamp fixtures, 2; gas, illuminating and heating, 1; gas machines and meters, 2; glue, 1; hand knit goods, 1; hay and straw, baling, 1; house furnishing goods, not elsewhere specified, 2; iron and steel, bolts,

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BALTIMORE, MD.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.				
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
24	\$26,336	5	\$13,500	19	\$12,886			\$18,835	\$61,584	97			
2,710	606,140	44	57,800	1,190	373,483	1,470	\$174,877	1,855,043	2,794,247	98			
1,050	620,521	220	161,047	738	419,025	92	39,840	407,382	1,836,000	99			
106	58,688	26	21,948	80	36,740			108,720	337,534	100			
4	1,220	3	1,070	1	150			200	2,406	101			
608	246,028	49	29,297	601	212,441	48	4,290	779,451	1,947,950	102			
64	25,238	4	2,747	30	11,051	30	11,440	43,467	99,353	103			
20	7,356	2	2,000	24	5,296			41,147	63,000	104			
134	70,484	32	28,801	91	37,483	11	4,200	36,147	183,113	105			
14	7,805	2	1,295	12	6,600			3,501	17,000	106			
36	14,166	13	6,240	23	7,926			41,320	87,195	107			
74	53,524	20	14,246	53	39,018	1	260	19,047	91,133	108			
376	174,954	23	22,036	276	105,704	77	46,224	216,978	495,500	109			
515	275,856	119	87,097	302	187,489	4	1,270	339,242	799,525	110			
920	414,282	148	122,569	701	273,212	71	18,501	307,863	1,144,534	111			
882	702,929	130	133,136	496	354,726	256	215,064	370,340	1,681,822	112			
53	28,583	11	8,015	33	14,401	9	6,167	33,590	78,018	113			
49	20,594	9	5,600	40	14,904			15,838	57,404	114			
146	69,032	43	27,649	99	41,776	4	507	103,040	262,015	115			
589	238,166	118	72,855	418	142,673	53	22,638	451,263	923,503	116			
21	8,910	6	2,000	15	6,226			5,232	20,073	117			
975	616,410	27	26,547	948	589,863			692,740	1,610,317	118			
1,341	345,407	40	30,344	637	170,708	634	135,355	597,958	1,191,918	119			
204	96,322	13	10,084	116	45,074	75	41,164	129,397	263,246	120			
24	5,825	1	600	23	5,225			7,634	30,000	121			
50	46,514	4	4,120	48	39,124	7	3,270	34,584	107,920	122			
421	225,112	53	53,904	304	170,158	4	1,050	3,668,147	4,311,412	123			
151	79,600	17	18,940	134	60,660			359,513	614,124	124			
3,333	1,360,140	272	201,815	2,328	868,781	733	279,544	3,048,148	5,247,837	125			
1,221	374,101	43	38,906	1,178	335,135			1,534,205	3,216,247	126			
2,021	865,902	348	215,512	520	183,833	1,153	466,647	988,431	2,600,086	127			
46	23,964	8	4,708	38	19,256			18,610	56,000	128			
76	30,046	14	8,484	50	17,018	12	4,544	43,745	110,000	129			
121	67,875	18	21,129	85	41,806	18	4,940	35,240	162,200	130			
158	48,002	24	14,620	30	11,664	104	21,718	197,068	305,366	131			
788	232,275	5	4,250	502	181,585	221	46,440	671,406	1,070,453	132			
37	22,906	13	13,496	23	9,338	1	112	18,222	58,264	133			
169	102,409	95	65,954	60	30,465	14	5,980	46,080	219,248	134			
47	22,560	9	6,560	37	15,550	1	450	45,330	82,160	135			
67	36,362	8	5,560	55	29,710	4	1,092	26,577	77,419	136			
52	22,802	12	7,476	40	15,326			23,204	66,795	137			
6,005	2,710,870	297	353,423	5,241	2,232,040	467	134,398	8,408,774	13,456,577	138			

nuts, washers, and rivets, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 2; jewelry and instrument cases, 1; kaolin and other earth grinding, 1; lamps and reflectors, 2; lasts, 1; lead, bar, pipe, and sheet, 1; leather goods, 1; leather, morocco, 1; lumber and other mill products from logs or bolts, 2; millstones, 2; mucilage and paste, 1; nets and seines, 1; alkam, 1; oil, lubricating, 2; paper, 1; petroleum, refining, 1; pipes, tobacco, 1; plated and britannia ware, 2; printing materials, 1; printing, tip, 1; pumps, not including steam pumps, 1; rubber and elastic goods, 1; safes and vaults, 1; sausage, 2; saws, 2; scales and balances, 2; stamped ware, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 2; stencils and brands, 1; surgical appliances, 2; toys and games, 2; varnish, 1; watch cases, 1; whips, 1; woodenware, not elsewhere specified, 1; woolen goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BAY CITY, MICH.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries (a).....	331	\$482,853	\$9,054,415	\$518,771
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	15	14,500	15,046	1,686
3	Boots and shoes, custom work and repairing.....	17	18,325	7,367	1,740
4	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	5	13,020	214,461	16,850
5	Bread and other bakery products.....	12	27,380	51,257	4,400
6	Carpentering	34	4,385	47,615	0,505
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	5	9,700	50,132	8,187
8	Chemicals. (See also Fertilizers; High explosives).....	3	-----	6,930	1,507
9	Clothing, men's, custom work and repairing.....	16	54,275	44,270	5,744
10	Clothing, women's, dressmaking.....	15	12,990	4,902	1,492
11	Foundry and machine shop products	9	21,000	636,833	31,080
12	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	7	7,000	22,615	1,815
13	Lumber and other mill products from logs or bolts.....	22	5,000	6,708,203	256,590
14	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	5	-----	306,192	25,068
15	Masonry, brick and stone. (See also Plastering and stuccowork).....	9	028	15,805	2,145
16	Millinery, custom work.....	8	18,210	23,280	2,200
17	Painting and paper hanging.....	13	6,530	7,940	1,160
18	Photography	5	4,775	23,080	1,104
19	Plastering and stuccowork. (See also Masonry, brick and stone.).....	3	300	1,115	377
20	Plumbing and gas fitting.....	6	21,210	20,383	2,230
21	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	4	8,920	20,250	703
22	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	4	21,200	40,225	22,531
23	Saddlery and harness.....	5	14,075	14,200	1,784
24	Salt.....	16	-----	507,012	34,348
25	Saws	3	1,050	22,250	1,362
26	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	12	30,920	22,717	8,382
27	Tobacco, cigars and cigarettes	10	13,670	21,904	7,756
28	Watch, clock, and jewelry repairing	7	29,140	7,125	2,483
29	Window shades.....	3	5,100	10,925	588
30	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	3	2,110	8,035	737
31	All other industries (b)	55	121,540	753,857	72,102

a Excludes returns from manufacturers of "Timber products, not manufactured at mill" having office in Bay city. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly locate its operations within the limits of a county or municipality. The totals of such reports obtained in Bay city are as follows: number of establishments reporting, 9; capital, direct investment, \$1,583,840; miscellaneous expenses, \$386,067; average number of employés, 592; total wages, \$95,978; cost of materials used, \$302,026; value of products, \$80,142.

b Embraces agricultural implements, 1; awnings, tents, and sails, 2; bookbinding and blank-book making, 1; brick and tile, 2; brooms and brushes, 1; cheese and butter, urban dairy product, 1; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 1; confectionery, 2; cooperage, 2; druggists' preparations, not including prescriptions, 1; dyeing

BINGHAMTON, N. Y.

1	All industries.....	704	1,606,140	9,058,651	907,357
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	26	22,033	32,302	2,321
3	Boots and shoes, custom work and repairing.....	42	30,667	22,964	4,142
4	Boots and shoes, factory product.....	4	58,425	715,049	28,209
5	Boxes, cigar.....	5	10,607	76,832	1,865
6	Bread and other bakery products.....	10	50,133	127,680	9,123
7	Brick and tile.....	3	-----	91,650	1,402
8	Carpentering	71	29,500	178,710	6,061
9	Carriage and wagon materials	3	3,000	148,650	5,588
10	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	7	4,250	277,494	12,183
11	Cheese and butter, urban dairy product	5	7,318	3,025	916
12	Clothing, men's, custom work and repairing	37	74,280	118,930	24,408
13	Clothing, men's, factory product	10	102,260	509,419	27,740
14	Clothing, women's, dressmaking	101	114,630	59,793	12,433
15	Confectionery.....	7	40,022	30,708	4,645
16	Cooperage.....	3	100	8,565	196

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BAY CITY, MICH.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
4,696	\$2,066,052	493	\$420,393	3,850	\$1,425,674	353	\$150,985	\$5,043,587	\$9,069,342		
31	19,237	16	10,689	15	8,548	—	—	7,005	35,383		
26	14,153	15	8,213	2	705	9	5,145	7,528	26,742		
173	58,056	9	11,140	150	45,520	5	1,981	238,052	350,161		
59	28,858	25	14,986	34	13,872	—	—	72,588	180,407		
189	95,643	41	25,693	143	65,700	5	4,250	95,409	242,400		
52	32,478	3	3,700	30	28,573	10	5,200	37,884	93,877		
10	3,160	3	1,073	7	2,087	—	—	1,132	7,014		
115	61,671	18	16,956	26	12,488	71	32,227	51,000	138,350		
79	22,955	15	9,284	61	12,271	3	1,400	10,757	51,523		
323	198,766	31	34,576	292	164,100	—	—	205,500	554,622		
25	13,198	3	1,093	22	11,205	—	—	25,165	44,250		
1,085	696,383	58	89,678	1,802	558,241	125	48,464	2,611,892	4,800,053		
160	84,337	13	13,936	147	70,401	—	—	308,539	571,195		
191	96,080	51	30,990	140	65,090	—	—	97,780	220,570		
33	11,437	10	4,800	23	6,637	—	—	22,917	43,100		
71	38,867	14	10,076	57	27,801	—	—	16,130	61,003		
14	10,488	6	5,980	8	4,458	—	—	4,364	19,730		
9	4,792	3	1,965	6	2,827	—	—	3,591	10,380		
65	35,082	10	8,204	55	26,878	—	—	35,052	79,928		
18	9,120	5	3,860	11	4,480	2	780	8,056	23,500		
102	62,912	18	10,156	65	30,736	19	13,020	24,821	133,400		
17	10,230	5	4,020	12	6,210	—	—	19,021	36,800		
234	85,284	4	2,700	101	60,102	39	13,482	118,184	290,082		
21	13,542	4	4,792	17	8,750	—	—	5,070	29,402		
40	21,198	6	3,711	34	17,487	—	—	41,695	81,268		
50	20,773	16	14,648	21	7,702	13	7,363	25,250	77,842		
20	10,690	8	4,250	12	6,440	—	—	2,538	17,120		
5	1,936	1	300	4	1,636	—	—	6,018	10,500		
13	4,144	3	2,166	10	1,978	—	—	1,406	6,769		
566	231,037	70	64,940	435	148,415	52	17,673	867,002	1,379,148		

and cleaning, 2; fancy articles, not elsewhere specified, 1; fertilizers, 1; flouring and grist mill products, 2; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 1; gloves and mittens, 1; hairwork, 1; hand stamps, 1; high explosives, 1; kindling wood, 1; lime and cement, 2; liquors, malt, 1; liquors, vinous, 1; lock and gunsmithing, 2; looking-glass and picture frames, 2; marble and stone work, 1; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; oysters, canning and preserving, 1; patent medicines and compounds, 1; paving and paving materials, 2; pumps, not including steam pumps, 2; roofing and roofing materials, 1; shipbuilding, 2; slaughtering and meat packing, wholesale, 2; soap and candles, 2; tools, not elsewhere specified, 1.

BINGHAMTON, N. Y.

10,191	4,349,102	1,013	841,978	7,454	3,028,823	1,724	478,361	7,659,007	15,040,152	1
50	32,144	26	16,249	30	15,805	—	—	11,461	50,888	2
61	20,440	42	21,374	17	7,474	2	601	16,590	53,423	3
696	325,708	30	45,924	500	238,144	100	41,730	917,362	1,330,986	4
105	44,065	5	7,900	90	35,700	10	1,365	71,887	131,600	5
96	55,398	14	12,450	82	42,948	—	—	173,478	290,448	6
108	28,140	2	2,400	106	25,749	—	—	7,955	47,050	7
509	207,729	76	60,983	429	234,562	4	2,184	371,594	780,067	8
107	48,408	9	9,068	98	38,500	—	—	76,511	138,200	9
267	128,654	—	—	267	128,054	—	—	152,703	425,105	10
10	4,200	6	2,800	4	1,400	—	—	15,525	22,906	11
102	90,406	42	34,842	110	51,778	10	3,786	62,474	192,209	12
717	213,004	60	60,938	175	73,019	482	79,047	415,385	814,600	13
298	83,504	107	40,920	191	42,584	—	—	31,938	137,281	14
43	20,198	15	9,173	28	11,025	—	—	43,034	93,881	15
7	8,750	3	1,750	4	2,000	—	—	3,275	8,350	16

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BINGHAMTON, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
17	Dentistry, mechanical.....	8	\$17,050	\$5,255	\$1,928
18	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	5	6,889	4,100	650
19	Flouring and grist mill products.....	5	25,840	230,442	50,380
20	Foundry and machine shop products.....	13	37,915	273,310	10,319
21	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, factory product.)	9	46,680	60,100	5,550
22	Furniture, chairs.....	4	25,000	203,700	8,040
23	Hairwork.....	4	7,240	4,100	774
24	Looking-glass and picture frames.....	5	8,155	16,000	1,202
25	Lumber and other mill products from logs or bolts.....	7	-----	425,449	10,091
26	Lumber, planing mill products, including sash, doors, and blinds. (See also Wood, turned and carved.)	5	6,410	343,400	10,486
27	Marble and stone work. (See also Monuments and tombstones.)	3	687	4,428	242
28	Masonry, brick and stone. (See also Plastering and stuccowork.)	40	5,364	300,600	3,585
29	Millinery, custom work.....	17	62,645	23,617	8,726
30	Mineral and soda waters.....	4	8,010	17,601	1,507
31	Monuments and tombstones. (See also Marble and stone work.)	3	4,883	49,500	2,541
32	Painting and paper hanging.....	28	10,580	18,415	2,151
33	Paving and paving materials.....	6	2,627	60,799	1,039
34	Photography.....	13	27,878	12,297	2,817
35	Plumbing and gas fitting.....	10	27,480	60,810	3,190
36	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	8	13,211	44,022	3,082
37	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	8	57,880	163,425	39,165
38	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	3	5,400	0,640	600
39	Saddlery and harness.....	8	7,020	52,670	2,704
40	Shirts. (See also Furnishing goods, men's.)	3	4,220	6,325	518
41	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	15	48,055	50,748	5,832
42	Tobacco, cigars and cigarettes. (See also Tobacco, chewing, smoking, and snuff.)	57	263,550	1,551,752	437,384
43	Watch, clock, and jewelry repairing.....	11	20,020	13,460	2,119
44	Wirework, including wire rope and cable.....	3	11,550	44,376	3,846
45	All other industries (a).....	65	223,356	2,605,900	135,889

a Embraces agricultural implements, 2; awnings, tents, and sails, 1; bookbinding and blank-book making, 2; boxes, fancy and paper, 1; carpets, rug, 1; carriages and sleds, children's, 1; chemicals, 2; coffee and spice, roasting and grinding, 1; combs, 1; dyeing and cleaning, 1; electric light and power, 2; electroplating, 1; engraving, wood, 2; food preparations, 2; fur goods, 1; furnishing goods, men's, 2; furniture, factory product, 2; gas, illuminating and heating, 1; glass, 1; gloves and mittens, 2; hand stamps, 1; hats and caps, not including wool hats, 1; leather, tanned and curried, 2; liquors, malt, 2; mantels, slate, marble, and marbelized, 1; models and patterns, 1; musical instruments, organs and materials, 1; musical instruments.

BIRMINGHAM, ALA.

1	All industries	283	885,920	4,553,478	545,200
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	15	23,400	15,225	2,820
3	Boots and shoes, custom work and repairing.....	28	36,200	11,281	4,353
4	Bread and other bakery products.....	3	17,400	7,130	2,040
5	Carpentering.....	20	33,500	121,065	71,278
6	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	5	20,200	33,025	3,015
7	Clothing, men's, custom work and repairing.....	12	85,200	71,715	14,611
8	Clothing, women's, dressmaking.....	49	93,500	27,310	9,564
9	Confectionery.....	4	20,800	39,250	2,706
10	Dyeing and cleaning.....	4	10,200	6,605	2,375
11	Foundry and machine shop products.....	9	23,545	589,127	22,308
12	Iron and steel.....	3	-----	1,558,975	210,852
13	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts; Wood, turned and carved.)	8	28,210	210,400	4,720
14	Masonry, brick and stone. (See also Plastering and stuccowork.)	5	1,200	97,250	16,783
15	Millinery, custom work.....	7	70,700	36,500	7,145
16	Painting and paper hanging.....	8	21,160	71,875	6,003

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BINGHAMTON, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.				
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
9	\$7,747	7	\$6,697	2	\$1,050	.....	.....	\$3,626	\$14,770	17	
9	2,598	4	1,410	5	1,188	.....	.....	1,776	7,000	18	
53	31,628	15	14,400	38	17,228	.....	.....	910,046	1,147,612	19	
188	118,043	19	21,463	169	98,574	.....	.....	86,707	301,440	20	
40	22,092	11	7,512	29	15,480	.....	.....	8,019	38,300	21	
180	83,889	7	7,700	153	65,980	20	\$10,200	103,250	283,000	22			
8	3,214	4	2,306	4	818	.....	.....	2,699	6,024	23	
18	9,040	8	4,850	10	4,190	.....	.....	9,855	20,600	24	
215	82,792	12	11,805	101	68,212	12	5,215	203,130	346,888	25			
212	105,882	18	15,982	194	89,900	.....	.....	208,042	357,100	26	
21	14,455	4	2,920	17	11,535	.....	.....	11,272	20,700	27	
880	436,024	46	44,102	834	391,922	.....	.....	693,094	1,239,093	28	
65	25,024	26	14,000	39	11,024	.....	.....	64,242	105,225	29	
13	6,496	5	3,268	8	3,228	.....	.....	7,540	26,000	30	
23	10,348	8	7,048	15	8,700	.....	.....	10,750	48,028	31	
131	67,836	29	19,538	102	48,298	.....	.....	28,213	108,102	32	
245	39,250	8	4,350	237	34,900	.....	.....	43,970	96,410	33	
23	16,884	14	12,120	9	4,764	.....	.....	6,417	34,200	34	
67	39,273	16	13,424	51	25,840	.....	.....	90,580	172,050	35	
49	21,440	11	9,434	38	12,006	.....	.....	8,775	41,400	36	
190	85,026	14	9,350	138	55,654	38	20,022	40,776	213,720	37			
22	9,617	3	1,817	19	7,800	.....	.....	18,265	31,800	38	
44	24,691	10	8,063	34	16,628	.....	.....	40,885	93,700	39	
19	6,721	3	2,006	5	1,705	11	2,410	4,896	14,808	40			
72	38,000	19	12,232	53	26,458	.....	.....	40,903	113,574	41	
2,674	920,128	128	124,706	1,030	517,329	910	278,093	1,055,480	2,733,160	42			
26	17,800	8	8,000	18	9,800	.....	.....	7,020	25,500	43	
33	12,807	6	3,757	19	7,730	8	1,380	25,510	50,550	44			
1,420	676,936	113	110,185	1,202	525,423	105	32,328	1,503,207	2,823,487	45			

pianos and materials, 1; paper, 1; patent medicines and compounds, 2; pickles, preserves, and sauces, 1; plastering and stucco work, 1; sausages, 2; scales and balances, 2; sewing machine repairing, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; stencils and brads, 1; taxidermy, 2; tobacco, chewing, smoking, and snuff, 1; typewriters and supplies, 1; umbrellas and canes, 1; vinegar and cider, 1; whips, 2; wood, turned and carved, 2; woodenware, not elsewhere specified, 1; woolen goods, 1.

BIRMINGHAM, ALA.

3,614	2,003,006	307	340,384	8,025	1,554,092	222	109,220	3,508,588	7,034,248	1
34	18,940	9	6,450	23	11,050	2	840	8,676	36,887	2
43	21,783	21	9,251	9	4,972	13	7,500	12,887	47,758	3
14	7,715	3	2,132	11	5,583	.....	.....	20,184	35,000	4
227	145,147	27	24,516	200	120,631	.....	.....	313,824	565,750	5
52	29,050	6	5,380	40	24,570	.....	.....	16,025	67,157	6
106	65,146	11	8,334	34	23,952	61	32,860	96,247	225,718	7
159	63,710	28	13,800	122	47,853	9	2,006	148,175	257,351	8
23	10,068	9	6,164	14	4,804	.....	.....	35,157	74,160	9
14	8,070	4	2,454	10	5,616	.....	.....	1,253	13,625	10
352	214,454	30	37,500	203	145,778	59	31,176	170,341	474,220	11
1,023	410,778	27	38,832	996	377,941	.....	.....	745,770	1,618,201	12
179	96,506	20	10,636	150	76,870	.....	.....	181,260	345,330	13
254	176,050	12	16,280	242	100,770	.....	.....	401,813	633,000	14
44	24,522	18	13,880	26	10,642	.....	.....	53,500	99,000	15
88	65,508	11	9,880	77	55,658	.....	.....	38,400	131,135	16

TABLE 2.—MANUFACTURES IN 185 CITIES HAVING A POPULATION
BIRMINGHAM, ALA.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
		Value of hired property.	Direct investment.	
17 Photography	6	\$25,475	\$11,315	\$4,013
18 Plumbing and gas fitting	4	14,500	11,085	2,318
19 Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	7	52,500	79,300	9,570
20 Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	11	54,945	250,575	50,372
21 Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	3	16,000	15,200	2,259
22 Saddlery and harness	5	30,000	23,125	3,742
23 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	8	40,560	50,050	6,370
24 Tobacco, cigars and cigarettes	3	2,100	3,780	1,308
25 Watch, clock, and jewelry repairing	14	38,100	8,900	3,904
26 All other industries (a)	33	117,525	1,188,015	80,150

^a Embraces awnings, tents, and sails, 2; bookbinding and blank-book making, 1; brass castings and brass finishing, 2; brick and tile, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; druggists' preparations, not including prescriptions, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hand stamps, 1; ice, artificial, 1; iron and steel, nails and spikes,

BLOOMINGTON, ILL.

1	All industries	188	333,974	2,874,141	223,532
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	13	6,100	25,576	1,052
3	Boots and shoes, custom work and repairing	9	4,064	4,009	587
4	Bread and other bakery products	4	9,600	29,831	2,028
5	Brick and tile	4	22,100	55,500	9,665
6	Carpentering	7	2,836	26,715	49,713
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	7	11,200	43,250	1,878
8	Clothing, men's, custom work and repairing	18	57,244	48,905	8,230
9	Clothing, women's, dressmaking	5	3,418	5,320	450
10	Coffins and burial cases, trimming and finishing	4	2,667	30,050	614
11	Confectionery	4	13,333	12,489	1,024
12	Dentistry, mechanical	6	5,580	2,683	676
13	Flouring and grist mill products	4	.....	135,552	8,282
14	Foundry and machine shop products. (See also Steam fittings and heating apparatus.)	6	2,100	491,087	7,059
15	Furniture, cabinetworking, repairing and upholstering	6	12,922	13,216	1,891
16	Lumber, planing mill products, including sash, doors, and blinds	4	6,900	101,050	3,547
17	Millinery, custom work	3	12,727	19,511	5,206
18	Monuments and tombstones. (See also Marble and stone work.)	3	3,036	40,501	2,181
19	Painting and paper hanging	10	6,736	32,043	2,781
20	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	5	1,500	107,811	6,613
21	Photography	7	17,380	15,050	3,450
22	Printing and publishing, book and job	3	18,000	69,770	2,417
23	Printing and publishing, newspapers and periodicals	9	24,755	120,214	24,500
24	Saddlery and harness	7	27,000	94,880	3,872
25	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	3	8,000	4,075	494
26	Tobacco, cigars and cigarettes	9	22,000	39,364	9,054
27	Watch, clock, and jewelry repairing	8	10,800	5,040	1,094
28	All other industries (a)	25	25,767	1,281,769	62,480

^a Embraces agricultural implements, 2; cars and general shop construction and repairs by steam railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; fruits and vegetables, canning and preserving, 1; hand stamps, 1; liquors, malt, 1; lock and gun smithing, 2;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BIRMINGHAM, ALA.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
23	\$12,948	6	\$4,392	17	\$8,556	.....	.....	\$11,575	\$34,400 17
30	23,301	3	3,390	33	19,911	.....	.....	30,637	66,505 18
87	64,398	12	11,232	75	53,166	.....	.....	41,778	140,029 19
154	120,126	30	30,000	114	80,074	10	\$0,452	55,728	274,880 20		
29	18,858	3	2,540	26	16,318	.....	.....	33,330	65,400 21
27	16,425	8	7,411	16	8,904	3	50	12,253	39,218 22		
61	40,521	6	5,631	58	34,990	.....	.....	69,970	140,010 23
7	2,587	1	317	3	970	3	1,300	4,713	9,130 24		
17	11,224	9	4,674	8	6,650	.....	.....	3,780	25,600 25
558	328,057	53	56,838	443	247,303	62	23,910	1,001,743	1,624,709 26		

cut and wrought, including wire nails, 1; liquors, malt, 1; lock and gun smithing, 1; lumber and other mill products from logs or bolts, 1; marble and stone work, 1; mattresses and spring beds, 2; mineral and soda waters, 2; monuments and tombstones, 2; patent medicines and compounds, 1; paving and paving materials, 1; plastering and stuccowork, 1; saws, 1; soap and candles, 1; trunks and valises, 2; wood, turned and carved, 1.

BLOOMINGTON, ILL.

2,524	1,201,045	323	253,050	1,871	868,738	330	130,257	2,025,949	4,081,001	1
28	20,418	17	14,520	11	5,898	.....	.....	5,943	37,617	2
14	4,706	10	3,740	2	416	2	640	3,161	9,740	3
30	15,534	9	5,386	21	10,148	.....	.....	41,595	60,556	4
187	57,005	8	3,060	105	34,665	74	19,340	14,400	97,250	5
46	23,410	8	6,182	38	17,228	.....	.....	49,860	128,089	6
46	24,278	10	9,008	36	15,180	.....	.....	18,050	49,198	7
116	71,515	17	15,790	13	5,306	86	50,320	62,387	158,887	8
33	7,008	6	2,872	27	4,826	.....	.....	850	10,000	9
6	5,344	4	4,220	2	1,124	.....	.....	12,000	20,780	10
11	0,000	3	3,200	8	2,809	.....	.....	8,938	19,150	11
9	2,544	6	1,028	3	916	.....	.....	1,030	6,000	12
43	28,180	12	10,224	31	17,356	.....	.....	314,132	437,004	13
181	103,199	15	16,335	97	51,364	69	36,500	93,694	329,525	14
19	9,918	5	3,084	14	5,934	.....	.....	14,494	30,025	15
89	44,085	11	8,636	78	35,550	.....	.....	28,125	105,500	16
51	14,911	7	4,407	44	10,444	.....	.....	30,200	54,000	17
25	13,388	7	5,000	18	7,488	.....	.....	14,868	39,297	18
59	31,682	12	9,824	43	20,979	4	870	21,947	63,213	19
34	19,037	9	11,426	25	8,211	.....	.....	35,247	74,396	20
25	15,400	8	6,788	14	7,124	3	1,518	9,559	32,746	21
69	33,805	11	8,603	57	24,502	1	200	63,741	102,000	22
122	66,592	25	19,324	80	34,312	17	12,916	42,503	194,800	23
49	27,150	18	12,056	31	14,203	.....	.....	31,304	67,660	24
8	4,030	2	1,900	6	2,730	.....	.....	2,855	9,650	25
53	27,247	9	9,568	10	4,102	34	13,577	25,436	74,497	26
14	6,324	3	1,794	10	4,010	1	520	1,534	10,430	27
1,157	576,157	71	52,126	1,047	521,223	39	-2,808	1,081,846	1,849,991	28

marble and stone work, 1; mineral and soda waters, 2; plumbing and gas fitting, 2; roofing and roofing materials, 2; slaughtering and meat packing, wholesale, 1; soap and candles, 1; steam fittings and heating apparatus, 1; trunks and valises, 1; vinegar and cider, 1; woolen goods, 1.

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BOSTON, MASS.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries.....	7,042	\$55,800,301	\$118,108,530	\$21,543,950
2	Artificial feathers and flowers. (See also Millinery and lace goods.)	5	44,140	9,844	5,054
3	Awnings, tents, and sails.....	33	140,772	181,820	21,195
4	Bags, other than paper.....	3	36,600	43,812	5,268
5	Baking and yeast powders.....	6	40,450	284,055	18,052
6	Baskets and rattan and willow ware. (See also Whalebone and rattan.)	8	18,915	5,908	1,177
7	Belting and hose, leather.....	8	71,743	186,516	9,807
8	Bicycle and tricycle repairing.....	9	19,320	10,150	2,462
9	Billiard tables and materials.....	7	73,950	107,600	11,090
10	Blacking. (See also Cleansing and polishing preparations.)	12	80,700	122,741	28,948
11	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	237	790,388	416,908	78,302
12	Bookbinding and blank-book making. (See also Printing and publishing.)	53	744,512	841,787	139,828
13	Boot and shoe cut stock.....	15	235,886	623,883	64,636
14	Boot and shoe findings.....	22	205,343	328,364	46,046
15	Boot and shoe uppers.....	7	35,118	90,888	13,570
16	Boots and shoes, custom work and repairing.....	473	870,840	150,078	81,549
17	Boots and shoes, factory product.....	18	207,915	630,858	64,983
18	Bottling. (See also Liquors, malt; Mineral and soda waters)	54	435,360	538,750	125,184
19	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	21	276,650	180,429	39,530
20	Brass castings and brass finishing. (See also Plumbers' supplies.)	27	212,375	850,242	77,828
21	Brassware.....	3	16,200	37,840	3,105
22	Bread and other bakery products.....	242	1,498,115	847,228	200,947
23	Bridges.....	10	21,025	137,550	10,128
24	Brooms and brushes.....	16	183,690	722,098	41,743
25	Buttons.....	3	77,000	152,200	19,790
26	Carpentering.....	533	1,178,265	2,464,578	467,183
27	Carriage and wagon materials.....	8	83,280	89,658	13,115
28	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	50	478,350	886,268	93,130
29	Cars and general shop construction and repairs by steam railroad companies.....	5	.....	671,251	.....
30	Cheese and butter, urban dairy product.....	4	69,340	63,561	8,458
31	Chemicals. (See also Fertilizers; Paints; Varnish.)	17	202,580	411,933	155,612
32	China, decorating.....	5	25,850	3,485	2,048
33	Clay and pottery products. (See also Brick and tile.)	4	41,450	91,985	9,588
34	Cleansing and polishing preparations. (See also Blacking.)	7	17,100	52,300	6,545
35	Clocks.....	3	6,250	795,700	80,097
36	Cloths, sponging and refinishing.....	5	31,450	5,885	5,972
37	Clothing, men's, custom work and repairing.....	516	3,446,850	1,646,770	903,944
38	Clothing, men's, factory product.....	180	5,184,240	10,022,028	2,475,906
39	Clowning, men's, factory product, buttonholes.....	11	29,460	6,140	2,567
40	Clowning, women's, dressmaking.....	607	2,224,765	571,023	215,976
41	Clowning, women's, factory product.....	35	906,800	405,521	97,410
42	Coffee and spice, roasting and grinding.....	15	464,550	1,259,875	102,301
43	Coffins and burial cases, trimming and finishing.....	11	48,050	88,170	6,007
44	Coffins, burial cases, and undertakers' goods.....	3	40,000	25,005	3,496
45	Confectionery.....	85	1,769,830	976,199	180,823
46	Cooperage.....	20	51,375	350,671	14,583
47	Cordage and twine.....	8	125,000	4,038,089	150,551
48	Cork, cutting.....	6	42,125	52,400	4,893
49	Corsets.....	10	57,800	25,025	5,057
50	Cotton goods. (See also Hosiery and knit goods.)	3	33,500	416,600	22,374
51	Cutlery and edge tools. (See also Files; Hardware; Tools, not elsewhere specified.)	17	37,600	35,715	6,340
52	Dentistry, mechanical.....	165	462,815	143,403	44,803
53	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.)	172	317,000	143,923	49,614
54	Dyeing and cleaning.....	15	77,255	51,954	11,462
55	Dye stuffs and extracts.....	7	67,885	778,332	79,003
56	Electrical apparatus and supplies.....	15	275,400	501,928	57,533
57	Electroplating.....	23	98,540	128,927	18,435
58	Engraving and diesinking.....	42	109,475	57,667	14,262
59	Engraving, steel, including plate printing. (See also Lithographing and engraving; Photolithographing and engraving.)	24	171,555	164,767	36,256
60	Engraving, wood.....	25	91,150	61,520	13,380
61	Fancy articles, not elsewhere specified.....	17	118,700	171,749	14,442

MANUFACTURES.

737

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BOSTON, MASS.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
90,805	\$55,125,872	12,320	\$11,217,435	65,557	\$38,217,716	12,910	\$5,690,721	\$105,602,568	\$210,936,616		
28	9,882	8	4,132	20	5,750	-----	17,668	45,865	2		
184	134,040	35	31,372	146	100,799	3	1,869	209,826	428,134		
41	18,087	7	6,404	30	10,940	4	743	110,941	150,394		
91	54,107	17	18,064	64	30,943	10	4,200	348,055	451,387		
31	14,817	7	4,886	22	9,228	2	753	2,679	20,534		
65	47,408	17	18,020	48	28,848	-----	172,693	280,379	7		
36	18,944	12	6,500	24	12,444	-----	7,586	32,500	8		
47	42,172	7	9,580	37	20,598	3	2,094	69,975	187,108		
99	48,980	16	14,592	83	34,388	-----	237,564	389,511	10		
825	584,827	177	143,200	643	439,816	5	1,715	289,668	1,213,991		
1,382	591,280	61	57,454	875	380,230	446	147,506	315,119	1,213,320		
240	120,949	44	39,920	104	50,804	90	30,219	1,553,507	1,837,727		
386	130,972	27	20,457	345	106,566	14	3,949	521,053	816,864		
38	23,508	10	7,124	27	18,184	1	200	273,802	333,805		
567	435,623	451	246,197	807	159,400	90	40,020	295,430	800,528		
928	441,920	45	43,504	240	112,537	643	285,820	870,190	1,508,697		
535	326,556	85	74,298	450	252,258	-----	1,242,822	2,029,017	18		
600	230,048	33	34,208	274	112,112	388	84,508	287,765	605,984		
603	398,066	57	68,161	543	327,240	3	2,650	346,295	977,893		
19	10,830	2	988	11	8,291	6	1,560	16,581	55,452		
1,498	856,223	490	280,277	991	571,223	17	4,723	1,965,476	3,485,938		
212	145,988	12	9,292	190	136,696	-----	214,345	447,000	23		
612	242,821	45	80,504	325	111,725	242	100,532	324,939	1,048,741		
185	62,240	6	7,652	170	54,504	-----	108,655	236,000	25		
4,531	3,419,049	525	476,968	3,994	2,935,959	12	6,722	3,946,394	8,787,674		
92	66,508	12	15,080	80	51,488	-----	58,772	154,575	27		
830	611,844	83	106,085	732	496,184	15	9,575	430,842	1,297,490		
404	293,035	12	9,381	482	283,654	-----	312,590	605,042	29		
41	26,822	5	5,572	30	21,250	-----	607,212	618,561	30		
185	122,146	46	51,364	121	62,935	18	7,847	377,183	787,627		
15	6,551	6	8,200	9	8,261	-----	33,156	44,675	32		
104	56,117	10	9,280	71	39,017	28	7,820	36,223	128,100		
90	41,359	17	9,738	71	31,371	2	200	119,292	325,090		
299	230,577	9	12,100	290	218,477	-----	58,241	442,383	35		
42	22,060	6	4,094	30	18,056	-----	2,139	38,850	36		
2,982	1,815,436	557	460,330	1,710	899,116	700	455,990	1,542,739	5,000,777		
6,478	3,290,533	850	811,722	2,810	1,457,189	2,812	1,021,622	10,623,050	19,640,779		
50	21,304	7	4,888	20	8,217	23	8,199	3,203	31,025		
2,783	1,080,356	587	297,417	2,100	742,929	146	49,010	895,688	2,669,092		
1,073	434,703	128	97,044	516	195,967	429	141,182	736,036	1,506,212		
228	161,355	44	56,006	183	108,100	1	150	2,827,806	8,345,498		
57	80,952	16	18,200	40	26,502	1	250	62,542	130,790		
28	21,150	7	5,840	21	15,310	-----	10,962	38,685	44		
1,519	621,885	193	155,445	1,249	423,740	83	42,700	2,245,642	8,555,831		
243	148,205	24	27,684	171	97,249	48	23,332	273,080	458,486		
1,789	635,616	81	54,730	1,755	579,416	3	1,500	3,675,334	5,351,614		
69	29,005	9	7,976	60	21,020	-----	58,887	127,450	48		
76	84,231	9	8,340	52	19,391	15	6,500	37,056	93,797		
200	95,040	8	7,512	232	83,308	20	4,160	487,380	621,250		
58	35,698	22	16,224	31	19,474	-----	12,163	67,520	51		
238	172,871	166	138,200	68	33,821	4	850	55,227	323,677		
311	108,670	180	69,751	131	38,910	-----	150,920	432,748	53		
94	30,119	13	7,143	65	27,250	16	4,726	11,364	86,964		
173	109,503	18	22,706	155	86,707	-----	1,428,577	1,703,686	55		
416	262,554	37	48,596	309	207,708	10	6,250	242,888	706,810		
128	94,730	33	33,416	94	60,586	1	728	30,044	170,200		
120	84,075	41	37,566	70	45,309	3	9,100	14,526	141,585		
277	171,450	40	52,450	190	87,696	38	31,295	122,010	390,821		
151	108,710	22	28,774	121	81,836	8	3,100	26,030	190,277		
250	97,212	22	16,288	209	77,660	19	3,264	82,574	233,585		

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BOSTON, MASS.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expensos.
			Value of hired prop- erty.	Direct investment.	
62	Fertilizers. (See also Chemicals.)	3	\$35,300	\$378,800	\$7,840
63	Files. (See also Cutlery and edge tools.)	6	6,000	51,282	3,082
64	Firearms	3	41,000	58,819	5,102
65	Fish, canning and preserving. (See also Food preparations.)	6	106,700	148,775	21,561
66	Flags and banners. (See also Regalia and society banners and emblems.)	3	6,300	11,240	651
67	Flavoring extracts	9	79,065	107,117	24,331
68	Flouring and grist mill products	5	38,900	201,625	13,215
69	Food preparations. (See also Fish, canning and preserving; Fruits and vegetables, canning and preserving.)	18	166,000	602,838	40,948
70	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	170	2,307,385	6,752,826	625,845
71	Fur goods. (See also Hats and caps, not including wool hats.)	28	674,475	376,581	53,995
72	Furnishing goods, men's. (See also Shirts.)	16	136,430	518,760	43,735
73	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	143	651,125	339,827	60,549
74	Furniture, chairs	8	154,185	148,645	18,606
75	Furniture, factory product	88	1,215,700	2,161,652	221,029
76	Gas and lamp fixtures. (See also Lamps and reflectors.)	7	105,075	282,050	41,045
77	Gas, illuminating and heating	8	27,645	15,910,950	430,272
78	Gas machines and meters	4	10,835	132,151	13,030
79	Glass, cutting, staining, and ornamenting	20	220,325	211,913	25,378
80	Gloves and mittens. (See also Hosiery and knit goods.)	4	24,140	0,560	2,194
81	Grease and tallow. (See also Soap and candles.)	6	14,900	781,813	40,507
82	Hairwork	27	314,100	67,405	27,865
83	Hand stamps	12	42,550	21,185	4,605
84	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	9	60,625	123,275	10,563
85	Hardware, saddlery	5	30,700	35,115	4,925
86	Hats and caps, not including wool hats. (See also Fur goods.)	31	551,450	270,932	59,422
87	Hosiery and knit goods. (See also Cotton goods; Gloves and mittens.)	10	78,400	147,818	17,866
88	House furnishing goods, not elsewhere specified	5	21,500	17,818	3,571
89	Ink writing	3	14,375	244,900	7,125
90	Instruments, professional and scientific	10	60,670	180,052	8,868
91	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	20	154,175	571,873	39,395
92	Japanning	7	30,575	6,610	2,884
93	Jewelry. (See also Watch, clock, and Jewelry repairing.)	20	233,275	361,600	25,602
94	Jewelry and instrument cases	5	20,645	12,325	2,200
95	Kindling wood	3	7,775	19,027	4,551
96	Lead, bar, pipe, and sheet	3	.....	914,054	41,484
97	Leather, dressed skins	3	23,435	35,500	4,697
98	Leather goods. (See also Pocketbooks; Trunks and valises.)	10	50,600	50,412	7,056
99	Leather, tanned and curried	12	84,735	164,471	12,566
100	Liquors, malt. (See also Bottling.)	19	102,500	5,479,626	1,143,692
101	Lithographing and engraving. (See also Engraving, steel, including plate printing; Photolithographing and engraving; Printing and publishing.)	11	161,425	1,180,038	128,535
102	Lock and gun smithing	58	124,800	44,867	12,204
103	Looking-glass and picture frames	81	642,085	294,010	67,725
104	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	48	751,035	1,519,451	121,314
105	Marble and stone work. (See also Monuments and tombstones.)	30	221,700	1,005,840	65,607
106	Masonry, brick and stone. (See also Plastering and stuccowork.)	231	380,575	8,210,030	323,104
107	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	22	315,900	348,855	41,380
108	Millinery and lace goods. (See also Artificial feathers and flowers.)	11	338,000	260,204	33,313
109	Millinery, custom work	151	1,838,205	284,201	157,226
110	Mineral and soda waters. (See also Bottling.)	13	152,365	137,670	35,872
111	Models and patterns	30	127,775	70,090	13,216
112	Monuments and tombstones. (See also Marble and stone work.)	14	68,850	89,526	9,051
113	Mucilage and paste	5	23,200	120,366	12,827
114	Musical instruments and materials, not specified	26	101,200	88,700	13,162
115	Musical instruments, organs and materials	7	285,285	675,203	205,654
116	Musical instruments, pianos and materials	29	826,705	2,755,000	218,666
117	Optical goods	21	161,830	45,200	14,520
118	Painting and paper hanging	440	1,026,785	684,152	150,809
119	Paints. (See also Chemicals; Varnish.)	12	128,250	243,552	38,664
120	Paper goods, not elsewhere specified	3	10,000	7,100	1,259
121	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	52	366,527	663,647	103,552

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BOSTON, MASS.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Value of products, including receipts from custom work and repairing.
Aggregates.		Officers, firm mem- bers, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		
Average number.	Total wages.	Num- ber.	Wages.	Number.	Wages.	Num- ber.	Wages.	Cost of ma- terials used.
28	\$18,694	4	\$5,320	24	\$13,374	1	\$125	\$160,824
37	20,960	6	4,311	30	16,524			4,582
66	63,938	6	8,840	90	57,098			32,568
124	62,848	17	15,950	90	36,398	17	10,500	285,488
8	5,496	1	800	7	4,696			5,473
								10,539
58	39,003	10	17,017	33	16,572	6	5,414	78,400
39	23,844	9	6,887	30	16,957			461,894
233	160,024	51	65,881	214	93,443	15	7,300	586,351
4,723	3,315,242	434	537,890	4,127	2,616,782	162	160,561	3,169,266
337	206,968	43	42,710	286	161,799	8	2,450	442,053
541	197,652	40	38,090	160	68,876	341	90,688	417,971
646	432,044	152	136,333	482	290,766	12	5,545	474,323
124	77,055	16	16,400	81	46,999	27	14,250	138,165
2,125	1,327,003	176	177,343	1,613	965,998	336	184,257	1,914,338
213	120,765	10	12,000	203	114,765			117,443
641	528,716	119	132,611	522	306,104			1,023,692
92	71,956	7	10,250	70	40,414	15	12,202	53,892
250	179,416	36	35,456	214	143,960			150,070
40	21,514	4	3,194	16	7,200	20	11,120	29,065
133	98,074	17	25,160	136	74,514			334,761
95	86,871	24	11,800	66	23,715	5	1,350	40,060
42	27,221	12	11,948	28	13,923	2	1,350	12,548
81	52,101	12	13,080	60	38,481			53,374
49	29,734	8	5,196	41	24,538			13,130
632	353,028	68	71,482	210	123,786	945	158,380	364,347
570	154,013	26	18,494	96	38,670	448	87,449	142,530
25	10,712	8	8,000	11	5,756	6	2,356	29,057
142	105,406	51	69,052	43	23,724	48	12,600	96,617
156	109,520	21	18,067	120	82,118	15	8,335	43,411
527	851,265	54	58,712	478	292,553			554,733
25	16,494	7	7,280	18	9,214			2,641
413	240,028	33	30,332	355	190,296	25	10,400	256,612
29	20,884	4	3,020	25	17,264			4,795
65	27,933	6	5,313	52	21,070	7	950	51,320
109	82,182	19	26,890	90	55,783			709,509
57	20,800	5	4,120	80	17,504	13	7,682	219,069
91	42,894	15	15,271	70	26,083	6	1,500	38,447
188	122,365	12	12,104	120	69,781	50	40,480	394,534
818	757,255	132	282,173	680	525,082			1,776,007
925	602,705	111	132,287	804	450,418	10	11,000	443,519
117	64,480	56	35,041	60	29,389	1	50	31,883
435*	280,402	104	82,079	327	105,255	4	2,468	381,330
1,347	952,915	91	104,145	1,251	844,770	5	4,000	1,463,355
855	605,646	56	68,746	700	541,900	5	3,380	440,488
4,315	3,310,801	258	270,700	4,087	3,036,721			4,323,551
485	238,927	56	48,180	350	157,940	79	32,798	611,744
497	208,215	37	24,254	155	63,967	805	119,904	455,281
676	296,964	250	150,869	417	144,045	9	2,050	563,242
144	88,210	33	26,980	111	56,230			115,503
145	108,776	33	32,696	102	68,904	10	6,176	18,395
80	60,740	14	15,100	60	45,640			58,814
41	24,900	15	10,550	24	13,800	2	550	136,007
120	98,923	29	30,034	99	68,829	1	60	35,383
260	190,669	25	24,710	218	149,495	26	16,464	177,800
1,970	1,479,937	85	142,339	1,743	1,282,219	142	104,770	1,750,803
76	48,932	17	18,743	54	33,571	5	1,618	33,384
2,271	1,673,141	433	382,766	1,784	1,257,850	54	32,519	676,610
105	63,345	22	21,180	83	42,185			286,586
18	7,998	6	3,916	11	3,770	1	312	423,631
275	167,475	86	67,508	155	78,734	34	11,235	1,310,160

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BOSTON, MASS.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
122	Paving and paving materials.	8	\$58,025	\$192,851	\$22,623
123	Perfumery and cosmetics. (See also Druggists' preparations, not including prescriptions.)	9	82,500	46,100	9,371
124	Photography.	85	1,211,885	276,980	100,766
125	Photolithographing and engraving. (See also Lithographing and engraving; Stereotyping and electrotyping.)	7	57,425	57,584	11,574
126	Pickles, preserves, and saucers. (See also Fruits and vegetables, canning and preserving.)	19	200,875	210,000	31,414
127	Plastering and stuccowork. (See also Masonry, brick and stone.)	40	77,760	104,904	12,475
128	Plumbers' supplies. (See also Brass castings and brass finishing.)	3	20,000	78,100	4,065
129	Plumbing and gas fitting.	251	956,860	886,054	120,111
130	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	217	2,455,165	3,441,456	897,891
131	Printing and publishing, music. (See also Bookbinding and blank-book making.)	18	187,800	534,036	97,853
132	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank book making.)	167	2,800,230	3,410,037	2,270,116
133	Printing materials.	4	19,225	7,810	1,918
134	Refrigerators.	9	71,900	159,357	15,325
135	Regalia and society banners and emblems. (See also Flags and banners.)	8	70,065	50,515	10,508
136	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	53	204,700	351,575	54,560
137	Rubber and elastic goods.	15	361,770	1,111,315	162,603
138	Saddlery and harness.	101	415,600	239,776	46,141
139	Sausage. (See also Slaughtering.)	9	50,700	46,847	8,258
140	Scales and balances.	4	23,125	17,307	3,908
141	Sewing machine repairing.	7	31,105	2,620	3,477
142	Sewing machines and attachments.	5	204,300	535,857	49,455
143	Shipbuilding.	51	285,400	636,852	30,572
144	Shirts. (See also Furnishing goods, men's.)	10	348,120	513,773	48,123
145	Show cases.	6	53,225	10,481	6,557
146	Silk and silk goods.	5	46,153	223,000	17,149
147	Silversmithing.	5	19,500	5,210	1,504
148	Slaughtering, wholesale, not including meat packing. (See also Lard, refined; Sausage; Slaughtering and meat packing, wholesale.)	3	70,000	452,087	22,475
149	Soap and candles. (See also Grease and tallow.)	17	83,834	446,791	89,598
150	Springs, steel, car and carriage.	4	10,250	19,000	1,851
151	Stationery goods, not elsewhere specified.	6	228,870	435,500	28,774
152	Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	15	235,670	871,030	93,033
153	Stencilts and brands.	10	40,175	10,876	3,816
154	Stereotyping and electrotyping. (See also Type founding.)	6	94,165	125,378	26,572
155	Surgical appliances. (See also Artificial limbs.)	9	96,525	23,375	7,612
156	Taxidermy.	3	21,125	8,200	2,430
157	Tinsmithing, coppersmithing, and sheet iron working. (See also Roofing and roofing materials.)	126	653,700	1,000,357	105,587
158	Tobacco, cigars and cigarettes.	133	525,550	914,829	231,203
159	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	13	28,425	107,375	5,262
160	Trunks and valises. (See also Leather goods.)	19	307,035	161,536	42,608
161	Type founding. (See also Stereotyping and electrotyping.)	3	87,750	155,564	10,235
162	Umbrellas and canes.	7	115,375	241,650	15,497
163	Upholstery materials. (See also Carpets and rugs, other than rug.)	3	15,260	15,490	2,433
164	Varnish. (See also Paints.)	7	64,175	177,346	33,225
165	Watch cases.	4	45,775	182,598	17,070
166	Watch, clock, and jewelry repairing. (See also Jewelry.)	203	518,000	91,668	49,834
167	Whalebone and rattan. (See also Baskets and rattan and willow ware.)	3	15,125	30,108	3,355
168	Window shades.	14	77,600	43,286	11,870
169	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	23	102,450	101,075	12,486
170	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	40	138,595	480,340	43,838
171	All other industries (a).	112	1,438,600	11,520,808	5,109,174

^a Embraces ammunition, 1; artificial limbs, 1; artists' materials, 1; babbitt metal and solder, 1; belting and hose, linen, 1; belting and hose, rubber, 1; bluing, 1; boxes, cigar, 2; boxes, wooden packing, 2; brick and tile, 2; card cutting and designing, 1; carpets and rugs, other than rag, 1; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, street railroad, not including operations of railroad companies, 2; chocolate and cocoa products, 1; clothing, horse, 1; combs, 1; cordials and sirups, 1; dentists' materials, 2; drug grinding, 2; dyeing and finishing textiles, 1; engravers' materials, 1; envelopes, 1; fireworks, 2; fruits and vegetables, canning and preserving, 1; galvanizing, 1; gasstoves, 1; glass, 1; glue, 1; gold and silver leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 1; graphite, 1; grindstones, 1; hat and cap materials, 2; horseshoes, factory product, 1; iron and steel, 2; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel, doors and shutters, 1; iron and steel, forgings, 1; iron and steel, nails and spikes, cut and wrought,

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BOSTON, MASS.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
282	\$151,835	17	\$16,502	204	\$135,333	.....	.....	\$185,276	\$421,506
48	18,319	12	7,578	36	10,741	.....	.....	60,608	124,220
402	280,105	80	66,541	364	208,326	18	\$5,298	201,710	820,633		
116	84,340	16	14,548	95	67,080	5	2,732	34,977	156,845		
172	77,078	39	29,956	130	45,942	3	1,180	254,941	425,604		
337	272,974	41	35,854	295	237,020	1	100	135,644	463,163		
43	28,958	6	5,900	33	19,210	4	3,848	17,422	78,800		
1,887	1,305,242	307	287,596	1,570	1,016,346	4	1,300	1,378,004	3,250,086		
2,005	1,815,401	412	380,870	2,164	1,241,916	380	183,705	1,535,709	5,487,739		
154	96,302	55	55,908	93	36,966	6	3,488	140,840	489,732		
2,747	2,253,445	671	652,556	1,427	1,068,427	649	592,462	1,607,138	7,140,264		
11	7,323	5	4,075	6	3,248	.....	.....	8,169	18,200
106	70,704	16	10,058	77	46,238	13	8,500	62,188	179,613		
53	25,888	11	8,910	35	13,228	7	3,750	33,176	102,930		
403	315,713	67	78,630	336	237,033	.....	.....	526,731	1,023,860
980	381,957	50	64,766	530	201,253	400	115,938	979,988	1,784,781		
411	254,433	103	70,368	256	149,603	52	34,462	236,311	656,524		
62	37,736	15	12,000	46	24,878	1	252	119,167	179,775		
31	17,010	4	2,300	27	14,710	.....	.....	11,030	38,284
16	10,084	7	4,160	9	5,924	.....	.....	4,132	19,450
509	337,462	37	49,016	447	264,436	25	24,000	233,906	741,654		
775	576,282	45	50,700	630	525,682	.....	.....	487,420	1,346,793
563	227,311	41	36,626	460	176,626	53	14,039	411,848	775,910		
34	25,246	7	5,892	27	19,354	.....	.....	21,940	59,275
323	123,804	27	36,900	266	82,486	30	4,478	91,641	249,000		
13	12,258	5	5,406	8	6,852	.....	.....	3,807	19,000
218	174,703	19	34,507	153	94,548	46	45,918	2,524,447	2,782,823		
286	138,583	36	31,143	241	104,620	9	2,820	532,450	787,518		
21	12,727	3	2,148	18	10,579	.....	.....	14,537	38,885
263	148,571	10	6,400	251	141,171	2	1,000	200,601	477,800		
950	612,522	58	67,736	891	544,006	1	780	896,735	1,955,765		
36	20,414	12	10,009	29	16,005	1	400	5,227	46,342		
199	134,790	13	9,580	158	114,294	28	10,916	58,284	274,826		
39	21,674	9	8,160	28	12,266	2	1,248	13,588	63,000		
12	7,052	4	3,320	7	4,107	1	225	1,306	14,000		
1,146	716,682	184	102,883	870	501,802	92	51,907	730,842	1,861,722		
1,508	775,707	162	130,535	372	180,637	974	464,535	1,170,668	2,360,085		
102	71,767	18	15,404	80	53,803	4	2,500	25,939	141,981		
202	122,120	32	24,028	147	83,977	23	14,124	245,818	483,418		
111	74,704	15	15,816	43	23,036	53	35,012	37,943	186,815		
234	105,223	24	31,444	92	41,886	118	31,893	302,897	569,237		
44	16,328	4	2,000	40	14,288	.....	.....	33,195	58,254
42	31,522	18	18,105	24	13,417	.....	.....	190,384	325,534
115	70,480	12	15,140	103	61,349	.....	.....	166,097	262,273
369	265,998	182	131,675	180	132,430	7	1,894	48,688	418,711		
21	10,995	5	4,400	16	6,595	.....	.....	71,763	95,477
96	48,101	19	13,074	72	33,183	5	1,954	96,397	179,633		
145	70,061	32	20,658	111	48,363	2	1,040	51,280	181,267		
210	141,716	46	38,607	163	102,759	1	350	130,518	401,027		
4,996	2,760,135	395	451,918	3,704	1,977,232	837	331,585	19,790,719	29,511,346		

including wire nails, 2; ivory and bone work, 2; kaolin and other earth grinding, 2; lamps and reflectors, 2; lapidary work, 2; lard, refined, 2; leather, morocco, 1; leather, patent and enameled, 1; liquors, distilled, 2; lumber and other mill products from logs or bolts, 2; mantels, slate, marble, and marbled, 1; mirrors, 2; nets and seines, 2; paper, 1; paper patterns, 1; pens, fountain and stylographic, 1; petroleum, refining, 1; photographic apparatus, 1; pipes, tobacco, 2; plated and britannia ware, 1; pocketbooks, 1; printing, tip, 1; pumps, not including steam pumps, 1; rules, ivory and wood, 1; safes and vaults, 1; sand and 1; emery paper and cloth, 1; screws, machine, 2; shoddy, 1; slaughtering and meat packing, wholesale, 1; smelting and refining, 1; soda water apparatus, 2; sporting goods, 2; starch, 2; steam packing, 1; sugar and molasses, refining, 2; toys and games, 1; typewriters and supplies, 2; vinegar and cider, 1; washing machines and clothes wringers, 1; watch and clock materials, 1; whips, 1; wire, 1; woodenware, not elsewhere specified, 2.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BRIDGEPORT, CONN.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	559	\$2,004,940	\$19,786,572	\$1,442,378
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	18	26,330	17,132	2,722
3	Boots and shoes, custom work and repairing	70	88,900	46,218	9,150
4	Bread and other bakery products	27	88,265	175,632	10,442
5	Carpentering	68	55,475	442,094	12,002
6	Carriage and wagon materials	3		163,065	4,293
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	12	43,450	440,325	10,574
8	Clay and pottery products	3	3,000	32,840	3,252
9	Clothing, men's, custom work and repairing	18	76,565	75,602	10,626
10	Clothing, women's, dressmaking	29	65,420	51,637	7,571
11	Corsets	5	76,810	2,475,000	445,832
12	Cutlery and edge tools. (See also Hardware; Tools, not elsewhere specified.)	4	34,000	135,616	11,045
13	Dentistry, mechanical	3	10,000	2,275	811
14	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	19	125,170	1,677,428	247,349
15	Furniture, cabinetmaking, repairing and upholstering	7	58,300	119,950	6,646
16	Furniture, factory product	3	8,750	50,400	1,869
17	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	7	86,060	883,340	24,621
18	Liquors, malt	4	2,900	916,889	50,942
19	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts; Wood, turned and carved.)	4	37,275	137,370	8,911
20	Masonry, brick and stone. (See also Plastering and stuccowork.)	34	25,800	205,955	8,548
21	Millinery, custom work	22	80,755	35,625	8,974
22	Models and patterns	3	11,900	14,585	1,057
23	Monuments and tombstones. (See also Marble and stone work.)	5	12,300	120,522	3,429
24	Painting and paper hanging	50	93,275	141,535	11,688
25	Paving and paving materials	4	1,000	36,227	3,986
26	Plumbing and gas fitting	23	120,550	141,675	11,728
27	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	10	45,570	50,040	3,156
28	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	6	59,615	139,750	28,287
29	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	4	9,225	11,880	936
30	Rubber and elastic goods	4	64,300	241,900	14,078
31	Saddlery and harness	7	26,000	353,752	4,656
32	Shifts	4	8,875	240,258	7,960
33	Silk and silk goods	3	26,670	145,293	12,884
34	Slaughtering and meat packing, wholesale	4		108,950	4,320
35	Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	3	27,600	1,190,422	43,012
36	Tobacco, cigars and cigarettes	10	15,900 ^a	34,136	6,961
37	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	5	81,930	254,865	23,116
38	All other industries (a)	54	413,375	9,558,124	379,308

^a Embraces belting and hose, rubber, 1; bookbinding and blank-book making, 1; boots and shoes, factory product, 1; boxes, fancy and paper, 2; brass and copper, rolled, 1; brass castings and brass finishing, 1; brassware, 2; brooms and brushes, 2; buttons, 1; carpets and rugs, other than rag, 1; clothing, horse, 1; cooperage, 2; crucibles, 1; engraving and diesinking, 1; flouring and grist mill products, 2; gas, illuminating and heating, 1; hosiery and knit goods, 2; iron and steel, 2; iron and steel forgings, 1; ironwork, architectural and ornamental, 1; leather, patent and enameled, 1; leather, tanned and curried, 1; lumber and other mill products from logs or bolts, 1; mantels, slate, marble, and marbleized, 1; marble and stone work, 2;

BROCKTON, MASS.

1	All industries (a)	537	1,571,421	7,772,452	1,136,445
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	20	13,775	56,637	2,485
3	Boot and shoe cut stock	7	20,434	85,182	12,174
4	Boot and shoe findings	14	84,250	143,168	16,748
5	Boot and shoe uppers	5	5,766	5,547	900
6	Boots and shoes, custom work and repairing	15	14,900	6,875	1,770

^a Includes a return from a manufacturer of "Timber products, not manufactured at mill" having an office in Brockton. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BRIDGEPORT, CONN.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
13,131	\$7,500,913	1,015	\$1,185,810	8,840	\$4,933,755	3,276	\$1,447,348	\$10,428,987	\$22,274,635		
50	88,198	21	19,080	29	18,118	-----	-----	20,142	65,924		
163	106,500	71	52,025	91	53,881	1	600	63,899	193,991		
186	123,205	50	41,344	136	81,851	-----	-----	309,978	500,681		
878	652,740	87	89,050	791	563,690	-----	-----	779,820	1,591,483		
130	92,226	10	14,056	120	77,270	-----	-----	68,140	196,000		
269	197,871	20	23,650	131	94,221	118	80,000	169,057	400,722		
93	46,715	6	6,250	87	40,465	-----	-----	8,895	78,640		
117	72,104	22	20,360	36	19,744	50	32,090	93,582	203,028		
119	50,365	37	21,200	70	28,265	3	900	28,296	94,799		
2,172	921,138	38	117,976	1,313	584,572	821	268,590	1,271,410	3,007,000		
174	90,148	15	11,005	95	40,710	64	32,427	42,847	165,200		
4	3,520	3	3,000	1	520	-----	-----	1,048	6,000		
1,257	717,656	77	93,744	962	502,831	218	121,080	748,174	1,922,805		
50	30,543	14	10,967	36	19,576	-----	-----	43,070	86,865		
22	16,808	3	4,300	13	8,548	6	4,050	44,829	72,000		
316	196,171	20	31,000	263	144,731	33	10,450	206,394	462,700		
44	38,710	5	5,300	30	33,410	-----	-----	102,891	249,000		
150	96,200	9	9,780	141	86,420	-----	-----	127,876	254,780		
621	452,050	42	48,300	479	404,350	-----	-----	446,347	976,595		
89	40,200	30	18,550	59	21,650	-----	-----	43,577	105,557		
16	15,680	3	5,400	13	10,260	-----	-----	4,726	27,000		
70	59,392	16	16,437	54	36,955	-----	-----	38,148	117,405		
358	272,845	65	56,320	291	215,025	2	1,500	168,774	491,106		
88	45,646	8	6,588	80	39,058	-----	-----	29,740	88,006		
206	144,232	30	32,205	176	111,967	-----	-----	143,706	337,582		
53	31,016	14	11,900	38	19,410	1	300	31,195	74,875		
95	70,530	12	10,644	59	42,310	24	17,576	31,242	143,300		
17	13,250	4	3,800	13	9,450	-----	-----	25,683	47,250		
287	150,048	14	21,700	219	110,127	54	24,221	325,455	567,098		
136	83,040	11	10,724	95	57,966	30	14,350	102,952	295,130		
240	47,858	5	6,425	28	13,701	207	27,232	201,977	306,756		
117	48,898	8	8,436	70	25,187	30	15,275	73,070	160,500		
52	40,300	13	13,200	39	27,100	-----	-----	414,424	582,818		
807	539,068	34	63,400	148	98,295	625	377,373	524,487	1,208,820		
42	26,605	13	10,025	1	800	28	15,780	23,246	66,255		
115	79,180	14	22,004	86	46,537	15	10,039	63,558	178,688		
3,628	1,915,302	171	243,109	2,520	1,287,678	938	384,515	3,516,322	6,944,242		

musical instruments and materials, not specified, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paper, 1; phonographs and graphophones, 1; plastering and stuccowork, 1; plumbers' supplies, 1; registers, car fare, 1; sewing machines and attachments, 1; shipbuilding, 2; silverware, 1; smelting and refining, 1; soap and candles, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; typewriters and supplies, 1; varnish, 1; watch, clock, and jewelry repairing, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; wool hats, 1.

BROCKTON, MASS.

11,192	6,600,165	875	853,841	5,112	2,992,808	5,205	2,753,516	11,211,411	21,970,099	1
56	34,017	21	14,997	35	10,020	-----	-----	18,564	58,125	2
70	37,305	10	7,076	55	28,933	5	1,296	189,064	260,222	3
115	58,582	21	15,320	64	31,881	30	11,361	221,674	371,942	4
11	6,570	5	3,611	6	2,950	-----	-----	7,357	15,083	5
28	10,272	12	5,856	5	1,981	9	2,485	5,828	19,502	6

locate its operations within the limits of a county or municipality. The data are included in "All other industries" in order that the operations of individual establishments may not be disclosed.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BROCKTON, MASS.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
7	Boots and shoes, factory product	73	\$750,100	\$5,430,088	\$894,000
8	Boxes, fancy and paper	4	19,300	128,749	7,315
9	Bread and other bakery products	6	11,089	14,004	6,579
10	Carpentering	47	21,211	210,400	11,047
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	5	14,575	12,400	1,583
12	Clothing, men's, custom work and repairing	17	51,580	28,015	6,433
13	Clothing, women's, dressmaking	58	53,533	22,413	6,799
14	Collins and burial cases, trimming and finishing	5	15,825	13,478	1,985
15	Confectionery	5	5,350	102,002	4,669
16	Cutlery and edge tools. (See also Files; Tools, not elsewhere specified.)	6	9,050	34,460	2,319
17	Dentistry, mechanical	7	8,823	6,376	1,504
18	Druggists' preparations, not including prescriptions. (See also Perfumery and cosmetics.)	14	10,503	25,490	3,812
19	Dyeing and cleaning	8	18,563	41,717	4,212
20	Foundry and machine shop products	11	43,400	94,574	7,487
21	Furniture, cabinetmaking, repairing and upholstering	5	9,413	16,290	1,051
22	Iron and steel, nails and spikes, cut and wrought, including wire nails	4	3,000	47,700	1,520
23	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts.)	3	20,000	39,150	4,200
24	Masonry, brick and stone. (See also Plastering and stuccowork.)	36	2,078	107,038	12,000
25	Millinery, custom work	15	50,300	32,400	6,402
26	Mineral and soda waters. (See also Bottling.)	4	7,600	9,857	3,112
27	Monuments and tombstones. (See also Marble and stone work.)	4	2,278	13,000	904
28	Painting and paper hanging	39	35,380	64,050	7,458
29	Paving and paving materials	3	1,200	4,300	1,119
30	Photography	4	19,450	12,450	3,720
31	Plastering and stuccowork. (See also Masonry, brick and stone.)	4	1,700	3,155	689
32	Plumbing and gas fitting	10	23,425	63,305	6,640
33	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	6	15,400	45,871	3,116
34	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	3	50,000	24,477	10,215
35	Roofing and roofing materials. (See also Tinsmithing, coppersmithing and sheet-iron working.)	3	313	15,275	2,346
36	Saddlery and harness	5	11,000	10,830	1,468
37	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	6	17,713	10,116	2,452
38	Tools, not elsewhere specified. (See also Cutlery and edge tools.)	4	6,568	17,480	3,395
39	Watch, clock, and jewelry repairing	5	7,112	5,475	1,117
40	Window shades	4	12,313	19,075	1,812
41	All other industries (a)	43	92,943	742,146	66,874

^a Embraces agricultural implements, 1; awnings, tents, and sails, 1; bicycle and tricycle repairing, 1; bookbinding and blank-book making, 1; bottling, 1; boxes, wooden packing, 1; brooms and brushes, 1; carriage and wagon materials, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 1; files, 1; flouring and grist mill products, 1; furnishing goods, men's, 1; gas, illuminating and heating, 1; hairwork, 2; hand stamps, 1; hats and caps, not including wool hats, 2; house

BROOKLYN, N. Y.

1	All industries	10,583	31,877,420	161,730,500	15,743,164
2	Artificial feathers and flowers. (See also Millinery and lace goods.)	11	33,485	50,349	4,313
3	Awnings, tents, and sails	27	56,120	38,007	6,502
4	Axle grease	4	9,550	28,010	1,778
5	Baskets and rattan and willow ware	30	30,385	185,932	11,072
6	Belting and hose, leather	4	73,500	762,513	34,621
7	Bicycle and tricycle repairing	3	17,700	14,798	1,763
8	Billiard tables and materials	3	9,000	20,600	1,050
9	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	237	309,900	503,630	51,364
10	Bookbinding and blank-book making. (See also Printing and publishing.)	11	86,420	1,164,642	67,520
11	Boot and shoe cut stock	4	17,055	66,615	2,837

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BROCKTON, MASS.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.											
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
8,120	\$1,016,096	201	\$419,271	3,375	\$2,031,098	4,454	\$2,465,667	\$8,854,140	\$16,171,634	7	
211	92,502	9	10,806	88	39,539	114	42,127	111,048	236,000	8	
30	18,981	9	6,382	21	12,649	—	—	44,052	80,584	9	
409	281,150	53	46,277	354	233,521	2	1,352	305,117	720,499	10	
15	10,351	7	6,085	8	4,266	—	—	9,171	23,985	11	
85	37,263	17	10,995	20	8,192	48	18,076	35,134	81,752	12	
159	63,055	59	35,618	64	26,322	6	1,115	18,618	98,523	13	
23	12,263	8	3,271	14	8,917	1	75	17,609	39,237	14	
47	27,708	14	9,349	30	17,416	3	943	103,394	143,180	15	
41	25,275	9	7,082	20	13,309	12	4,884	5,819	51,647	16	
13	8,006	7	4,483	6	3,523	—	—	2,760	17,125	17	
25	6,821	14	4,866	11	1,955	—	—	11,916	34,051	18	
60	31,205	9	6,980	38	20,745	13	3,564	99,710	146,054	19	
80	69,111	15	13,606	67	42,151	4	3,264	26,507	100,232	20	
15	7,028	6	2,755	8	4,123	1	150	13,357	27,000	21	
45	32,074	6	5,780	27	15,044	12	10,350	44,826	102,048	22	
27	21,045	5	5,448	22	10,497	—	—	25,766	62,544	23	
248	149,433	43	39,680	204	115,253	1	500	94,386	291,362	24	
52	21,310	13	7,978	38	13,335	1	6	51,986	90,411	25	
14	5,914	5	2,132	9	3,782	—	—	3,188	16,027	26	
9	5,800	6	4,000	3	1,800	—	—	9,270	19,649	27	
174	107,405	48	83,531	123	71,684	3	2,250	66,567	190,551	28	
13	4,971	3	1,964	10	3,607	—	—	3,127	9,696	29	
18	9,053	4	3,735	10	4,080	4	1,288	4,403	20,600	30	
25	13,205	4	3,018	1	202	20	9,985	1,707	17,407	31	
67	44,143	18	12,942	49	31,201	—	—	67,058	128,458	32	
33	22,208	7	6,020	26	15,588	—	—	21,167	66,526	33	
38	22,812	12	9,132	21	11,180	5	2,500	22,874	66,919	34	
18	11,952	4	2,840	14	9,112	—	—	31,019	53,225	35	
14	9,199	6	4,140	8	5,050	—	—	11,919	27,075	36	
20	19,237	6	4,484	23	14,753	—	—	18,896	47,630	37	
24	17,138	7	6,888	10	5,746	7	4,504	7,304	33,737	38	
19	12,833	5	3,560	14	9,273	—	—	3,202	19,850	39	
9	7,646	4	3,780	—	—	5	3,866	31,872	46,660	40	
690	316,027	73	63,907	181	90,652	445	162,008	544,525	1,064,527	41	

furnishing goods, not elsewhere specified, 1; lasts, 2; lock and gunsmithing, 2; looking-glass and picture frames, 1; lumber and other mill products from logs or bolts, 2; marble and stone work, 2; models and patterns, 2; perfumery and cosmetics, 2; rubber and elastic goods, 2; sausage, 2; sewing machine repairing, 2; slaughtering and meat packing, wholesale, 1; timber products, not manufactured at mill, 1; tobacco, cigars and cigarettes, 1.

BROOKLYN, N. Y.

100,202	65,247,119	15,088	14,229,750	77,660	44,541,231	16,535	6,470,120	151,060,710	260,244,147	1
135	31,640	12	7,243	60	14,869	63	9,428	21,913	67,151	2
104	59,837	30	23,684	68	34,703	6	1,450	70,418	161,656	3
13	9,702	7	6,030	6	3,672	—	—	27,709	47,650	4
174	86,471	40	32,721	73	31,098	61	22,652	77,704	226,504	5
141	91,088	21	23,223	120	68,765	—	—	691,163	861,904	6
11	7,872	3	3,000	8	4,872	—	—	4,720	24,082	7
12	9,260	4	5,540	8	3,720	—	—	9,779	26,290	8
797	611,347	236	238,318	527	366,097	14	6,932	302,876	1,155,237	9
640	353,838	56	61,310	578	291,724	6	804	606,492	1,317,700	10
54	26,674	8	8,060	41	15,784	5	2,730	100,950	135,500	11

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BROOKLYN, N. Y.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
		Value of hired prop- erty.	Direct investment.	
12 Boot and shoe findings.....	3	\$13,885	\$26,580	\$1,585
13 Boot and shoe uppers.....	18	33,405	45,965	4,291
14 Boots and shoes, custom work and repairing.....	1,310	1,502,700	567,076	186,340
15 Boots and shoes, factory product.....	41	240,125	820,459	61,474
16 Bottling. (See also Liquors, malt; Mineral and soda waters.).....	24	45,000	87,842	17,753
17 Boxes, cigar.....	7	57,425	91,095	10,655
18 Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.).....	20	460,725	1,057,656	151,154
19 Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.).....	10	49,425	876,725	26,550
20 Brass castings and brass finishing. (See also Bronze castings; Plumbers' supplies.).....	28	74,118	227,253	13,928
21 Brassware.....	7	81,225	322,930	34,537
22 Bread and other bakery products.....	735	2,064,750	2,832,375	\$15,830
23 Brooms and brushes.....	43	51,500	322,050	13,017
24 Buttons.....	9	42,200	129,440	8,330
25 Carpentry.....	488	563,045	3,281,086	203,078
26 Carpets, rag.....	17	20,314	10,709	2,464
27 Carriage and wagon materials.....	3	83,775	108,200	9,415
28 Carriages and sleds, children's.....	8	44,745	30,050	5,623
29 Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.).....	127	352,555	1,223,271	67,897
30 Chemicals. (See also Fertilizers; Paints, Varnish.).....	30	320,450	6,040,835	554,928
31 Clay and pottery products.....	20	154,000	803,750	31,387
32 Clothing; men's, custom work and repairing.....	683	1,970,080	1,074,364	241,587
33 Clothing; men's, factory product.....	809	1,384,480	1,725,580	318,860
34 Clothing; men's, factory product, buttonholes.....	50	56,355	48,816	8,212
35 Clothing, women's, dressmaking.....	850	1,030,500	405,107	107,602
36 Clothing, women's, factory product.....	36	138,425	289,784	62,353
37 Coffee and spice, roasting and grinding.....	13	306,300	2,057,092	80,534
38 Coffins and burial cases, trimming and finishing.....	77	210,400	374,056	27,793
39 Coffin, burial cases, and undertakers' goods.....	8	100,700	165,258	12,127
40 Confectionery.....	197	1,047,500	1,876,009	194,873
41 Cooperage.....	41	201,000	1,772,135	200,894
42 Cordage and twine.....	4	25,000	2,325,400	68,780
43 Cork, cutting.....	8	72,715	300,510	18,896
44 Corsets.....	7	37,400	46,944	7,234
45 Cotton goods. (See also Hosiery and knit goods.).....	5	28,100	204,600	10,877
46 Cutlery and edge tools. (See also Files; Hardware; Saws; Tools, not elsewhere specified.).....	10	14,950	21,475	2,092
47 Dentistry, mechanical.....	96	219,325	133,360	29,603
48 Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.).....	90	329,485	240,703	40,861
49 Dyeing and cleaning.....	45	102,340	113,133	16,756
50 Dyeing and finishing textiles.....	4	23,700	176,026	10,250
51 Dye stuffs and extracts.....	3	1,500	1,350,400	34,332
52 Electrical apparatus and supplies.....	10	61,375	424,223	20,103
53 Electric light and power.....	3	6,600	2,678,236	50,093
54 Electroplating.....	9	20,055	38,080	3,418
55 Engravers' materials.....	3	17,500	16,820	1,884
56 Engraving and diesinking.....	6	18,945	18,485	2,910
57 Fancy articles, not elsewhere specified.....	16	44,825	147,665	15,044
58 Files. (See also Cutlery and edge tools.).....	9	17,885	41,595	2,960
59 Flags and banners. (See also Regalia and society banners and emblems.).....	3	17,125	5,840	1,647
60 Flouring and grist mill products.....	5	50,000	729,075	171,678
61 Food preparations.....	22	85,585	275,505	28,661
62 Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.).....	176	1,498,750	12,508,718	809,208
63 Fur goods. (See also Hats and caps, not including wool hats.).....	23	105,045	234,720	15,477
64 Furnishing goods, men's. (See also Shirts.).....	22	55,235	174,607	8,805
65 Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.).....	208	529,355	644,416	72,250
66 Furniture, chairs.....	5	54,450	113,924	10,820
67 Furniture, factory product.....	27	836,550	659,092	50,189
68 Furs, dressed.....	16	15,235	177,456	8,608
69 Gas and lamp fixtures. (See also Lamps and reflectors.).....	9	30,530	1,850,776	241,712
70 Gas, illuminating and heating.....	4	45,835	8,716,229	505,150
71 Glass.....	11	393,050	700,946	60,637

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BROOKLYN, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									Cost of materials used.	Value of products, including receipts from custom work and repairing.
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.				
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.			
140	\$22,064	5	\$6,124	15	\$5,940	120	\$10,000	\$29,160	\$62,200	12
60	30,825	21	13,077	20	12,582	10	4,866	64,937	107,324	13
2,248	1,027,546	1,268	647,474	648	248,219	332	131,853	551,828	2,008,630	14
1,878	947,912	83	88,772	907	454,694	828	404,446	1,240,406	2,489,885	15
114	66,672	30	25,372	84	41,300	.....	.....	191,580	309,090	16
199	101,052	15	16,020	152	73,200	32	11,232	104,058	241,315	17
1,238	487,894	116	111,956	806	324,158	256	51,580	728,378	1,018,832	18
554	306,841	24	26,408	480	255,843	41	24,500	924,735	1,460,500	19
250	105,737	39	39,560	220	126,171	.....	.....	213,280	533,045	20
354	186,106	18	29,564	331	154,002	5	2,600	159,734	411,369	21
3,597	2,208,298	1,038	800,587	2,511	1,452,936	48	14,775	5,210,208	9,331,523	22
477	217,912	58	51,347	122	61,388	297	105,177	261,602	570,938	23
181	84,907	15	16,400	147	62,897	19	5,700	80,307	218,545	24
3,693	3,136,079	576	612,083	3,013	2,481,139	104	43,457	3,607,910	8,239,652	25
38	18,372	18	10,084	10	7,260	4	1,028	11,773	36,555	26
104	74,608	7	6,050	82	55,658	15	12,000	106,240	234,600	27
61	32,258	23	12,820	30	18,888	2	550	77,312	125,345	28
1,099	776,878	158	102,570	404	587,900	37	26,330	552,175	1,024,326	29
1,600	972,173	163	245,345	1,213	656,953	233	69,875	6,318,208	9,091,609	30
674	343,112	38	40,591	504	240,243	132	62,278	233,482	737,146	31
2,746	1,508,391	747	570,474	920	504,898	1,070	523,010	1,785,785	4,178,850	32
7,846	2,681,282	906	622,476	3,879	1,350,411	2,971	699,305	2,066,790	5,919,850	33
345	123,016	58	35,346	174	57,832	113	29,838	23,264	176,210	34
2,836	1,074,835	885	437,140	1,739	602,510	212	35,179	1,129,975	2,630,453	35
821	289,760	58	56,264	403	136,924	360	96,572	563,290	1,036,207	36
794	479,030	158	170,210	329	212,506	307	96,320	11,051,338	12,247,162	37
213	155,765	92	88,792	110	63,084	11	3,889	270,280	563,951	38
120	77,218	17	20,680	93	50,138	10	6,400	110,794	275,300	39
2,237	1,096,252	384	302,642	1,577	714,398	276	70,212	1,833,911	3,731,202	40
1,620	839,514	63	139,556	1,250	616,414	307	83,544	1,019,407	2,140,665	41
1,737	702,806	60	60,100	1,677	642,706	.....	.....	5,190,138	6,535,792	42
449	206,239	32	41,126	497	161,993	10	3,120	307,768	506,250	43
241	87,156	13	15,042	67	18,303	171	53,751	78,390	191,822	44
131	70,494	7	9,696	124	60,798	.....	.....	487,470	605,100	45
34	22,614	10	7,120	24	15,494	.....	.....	6,119	47,385	46
174	129,719	103	91,293	70	38,226	1	200	48,711	249,952	47
248	185,038	119	77,885	129	57,148	.....	.....	167,881	401,359	48
147	82,578	54	39,036	86	41,970	7	1,566	25,531	157,435	49
115	69,105	13	12,155	102	46,950	.....	.....	29,903	112,721	50
176	126,430	.....	.....	170	126,430	.....	.....	761,206	977,000	51
487	359,740	43	78,108	444	281,632	.....	.....	180,050	815,576	52
154	181,490	15	20,058	139	111,402	.....	.....	91,181	496,079	53
86	42,346	11	8,240	64	24,278	11	9,828	11,930	70,400	54
45	14,440	5	3,447	40	10,993	.....	.....	12,018	34,090	55
36	25,237	8	9,163	28	16,074	.....	.....	3,150	36,400	56
160	63,621	18	11,520	119	46,490	23	5,506	67,100	179,036	57
101	56,928	13	11,080	44	25,488	44	20,360	37,793	107,071	58
27	11,756	3	2,710	9	4,440	15	4,000	13,521	28,075	59
166	142,489	23	36,632	143	105,857	17	5,750	3,502,000	4,011,620	60
200	117,088	47	40,005	145	72,233	.....	.....	278,811	505,256	61
7,827	5,080,974	551	878,948	6,435	4,237,261	841	570,765	5,221,747	15,027,590	62
249	138,910	30	27,003	188	98,336	31	13,580	429,970	794,100	63
481	105,313	37	34,174	114	47,928	330	53,211	239,084	478,682	64
1,103	694,791	232	183,400	697	434,114	233	72,277	953,886	2,041,577	65
81	51,750	10	8,415	66	41,844	5	1,500	93,742	209,040	66
893	647,964	64	89,012	720	508,020	69	50,932	845,283	1,807,177	67
337	225,786	27	35,898	173	83,613	164	106,275	139,773	504,040	68
1,215	835,369	86	100,048	1,128	674,421	1	900	389,846	1,717,458	69
722	574,702	52	88,430	677	486,272	.....	.....	775,553	3,057,527	70
1,309	621,740	27	30,210	1,036	424,181	306	107,408	268,904	1,041,461	71

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BROOKLYN, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
72	Glass, cutting, staining, and ornamenting	29	\$122,150	\$154,712	\$18,862
73	Gold and silver, leaf and foil.....	5	3,000	13,052	537
74	Hairwork.....	27	150,500	38,050	14,024
75	Hand knit goods.....	5	6,000	24,50	1,068
76	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	19	189,025	680,045	48,877
77	Hat and cap materials.....	5	102,040	188,078	34,374
78	Hats and caps, not including wool hats. (See also Fur goods; Straw goods, not elsewhere specified.)	40	155,025	707,518	40,942
79	Hosiery and knit goods. (See also Cotton goods; Gloves and mittens.)	15	135,330	592,420	22,012
80	House furnishing goods, not elsewhere specified.....	5	24,400	33,091	3,045
81	Ink, printing.....	3	78,150	398,500	11,802
82	Instruments, professional and scientific.....	17	50,330	101,362	11,058
83	Iron and steel, bolts, nuts, washers, and rivets.....	4	12,000	125,100	4,073
84	Iron and steel, forgings.....	7	31,460	245,284	18,628
85	Iron and steel, nails and spikes, cut and wrought, including wire nails.....	4	300	187,585	11,445
86	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	51	151,650	871,395	36,270
87	Ivory and bone work.....	4	6,240	8,075	708
88	Jewelry. (See also Watch, clock, and Jewelry repairing.)	12	88,100	570,334	15,136
89	Kaolin and other earth grinding.....	3	30,000	227,400	25,949
90	Kindling wood.....	15	65,220	415,712	24,895
91	Leather goods. (See also Pocketbooks; Trunks and valises.)	12	18,000	457,494	7,248
92	Leather, morocco.....	3	150,250	503,058	20,181
93	Leather, tanned and curried.....	7	132,400	486,589	34,057
94	Lime and cement.....	8	—	142,240	6,406
95	Liquors, malt. (See also Bottling.)	37	308,330	12,490,842	3,128,527
96	Lithographing and engraving. (See also Printing and publishing.)	3	42,730	212,507	14,861
97	Lock and gun smithing.....	63	108,040	62,018	14,014
98	Looking-glass and picture frames.....	42	122,200	94,837	26,932
99	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	42	174,500	3,500,787	140,510
100	Mantels, slate, marble, and marbleized.....	6	13,040	208,000	8,054
101	Marble and stone work. (See also Monuments and tombstones.)	40	101,110	1,347,504	54,440
102	Masonry, brick and stone. (See also Plastering and stuccowork.)	94	105,080	1,400,080	114,381
103	Matting and matting.....	8	52,000	290,200	17,982
104	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	17	106,075	80,195	12,382
105	Millinery and lace goods. (See also Artificial feathers and flowers.)	12	200,275	200,220	30,507
106	Millinery, custom work.....	136	560,265	424,294	57,564
107	Mineral and soda waters. (See also Bottling.)	56	142,425	530,702	84,503
108	Models and patterns.....	18	50,110	57,014	5,029
109	Monuments and tombstones. (See also Marble and stone work.)	37	104,140	423,869	19,555
110	Musical instruments and materials, not specified.....	24	69,120	95,876	8,281
111	Musical instruments, organs and materials.....	4	5,000	50,325	1,177
112	Musical instruments, pianos and materials.....	12	102,523	526,475	15,703
113	Oil, lubricating.....	7	17,090	62,800	5,630
114	Oil, resin.....	3	5,000	91,050	6,630
115	Optical goods.....	7	21,050	30,475	2,602
116	Painting and paper hanging.....	466	839,575	1,417,082	137,870
117	Paints. (See also Chemicals; Varnish.)	31	704,580	2,890,798	438,705
118	Paper goods, not elsewhere specified.....	5	53,070	482,000	50,090
119	Paper hangings.....	5	303,482	1,486,639	300,754
120	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	28	71,900	214,825	85,570
121	Paving and paving materials.....	6	21,500	51,000	3,422
122	Pens, fountain and stylographic	3	2,800	12,230	405
123	Perfumery and cosmetics. (See also Druggists' preparations, not including prescriptions.)	3	11,670	31,050	2,528
124	Photography.....	81	307,475	184,700	41,800
125	Pickles, preserves, and sances.....	15	17,900	57,205	6,753
126	Pipes, tobacco.....	6	11,600	13,073	1,015
127	Plastering and stuccowork. (See also Masonry, brick and stone.)	15	14,780	30,815	4,576
128	Plated and britannia ware.....	4	57,100	262,000	18,501
129	Plumbers' supplies. (See also Brass castings and brass finishing.)	10	21,575	611,650	27,507
130	Plumbing and gas fitting.....	327	674,605	1,307,356	114,080
131	Pocketbooks. (See also Leather goods.)	8	14,450	7,990	2,510

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BROOKLYN, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
238	\$187,395	52	\$52,322	165	\$125,873	21	\$9,200	\$91,140	\$37,003 72
23	14,782	4	3,110	17	10,424	2	1,248	24,778	49,140 73
02	44,288	33	21,372	48	19,588	11	3,928	28,033	110,042 74
31	13,244	5	4,124	16	4,520	10	4,600	18,315	38,500 75
631	368,509	49	50,280	380	182,015	202	127,214	268,026	798,419 76
406	158,082	9	12,444	350	118,942	47	26,696	554,499	805,490 77
1,331	880,066	45	46,927	808	497,869	478	335,270	649,635	2,031,519 78
670	180,243	33	28,530	447	128,411	190	28,296	445,667	887,386 79
66	30,686	6	12,772	60	17,914			91,718	139,000 80
50	37,500	4	4,500	46	33,000			150,135	273,000 81
191	128,528	31	32,064	112	61,116	48	34,748	51,944	217,532 82
01	38,432	8	5,000	50	30,900	3	1,872	71,121	147,573 83
146	107,391	21	24,888	125	82,503			70,788	261,377 84
105	62,888	7	5,544	86	51,344	12	6,000	283,388	427,300 85
932	643,360	84	95,804	845	546,656	3	900	1,036,416	1,909,401 86
25	12,136	4	2,880	18	8,008	3	1,248	7,116	24,144 87
298	216,031	48	53,934	243	158,179	7	4,818	963,682	1,323,234 88
97	52,113	7	6,300	60	45,813			68,185	197,800 89
445	213,078	24	25,946	252	124,050	160	63,082	270,312	658,905 90
405	198,402	16	18,372	474	176,208	5	3,822	437,443	821,219 91
352	209,802	17	20,640	335	180,222			708,479	1,125,000 92
281	101,726	17	17,901	254	139,149	10	4,076	577,275	840,181 93
100	54,288	9	7,888	91	46,400			55,980	155,650 94
1,800	1,910,282	264	604,457	1,536	1,305,825			4,412,068	12,004,529 95
144	83,139	13	15,084	131	68,105			68,407	219,958 96
141	82,156	71	51,107	61	28,047	9	2,042	48,284	167,119 97
168	107,017	47	41,000	119	64,365	2	1,352	116,072	290,588 98
2,584	1,706,055	140	204,150	2,431	1,493,305	13	0,500	3,324,949	5,930,829 99
122	101,001	13	20,274	92	58,445	17	14,182	173,062	334,977 100
914	888,840	69	103,728	842	784,275	3	840	872,066	2,189,043 101
2,480	2,130,942	123	176,071	2,294	1,911,416	63	48,455	2,895,048	5,848,090 102
284	150,706	14	19,650	185	98,158	85	41,988	252,480	474,297 103
154	98,191	26	29,803	105	52,312	23	16,076	200,429	361,496 104
429	223,319	27	20,345	253	138,430	149	55,544	324,024	644,160 105
505	270,156	150	89,220	420	180,732	16	3,204	470,841	907,554 106
460	263,150	88	76,624	362	184,018	15	2,508	266,843	776,726 107
54	45,068	17	18,654	36	25,790	1	0,624	19,142	92,162 108
334	280,553	52	79,219	246	178,069	36	22,365	180,500	520,200 109
132	74,106	27	23,522	87	40,940	18	9,704	60,391	176,337 110
36	30,812	6	6,980	30	23,832			14,610	50,160 111
303	210,127	19	31,130	239	138,087	45	40,970	167,580	572,350 112
27	21,258	11	10,320	15	10,338	1	600	32,750	87,705 113
39	27,760	11	11,620	28	16,140			276,400	344,500 114
11	7,614	7	5,470	4	2,044			5,450	22,084 115
2,092	2,292,191	535	509,175	2,378	1,744,467	79	38,559	1,123,010	4,116,798 116
1,113	694,576	148	207,034	829	438,482	135	53,400	3,010,822	5,572,631 117
247	125,015	18	32,200	222	90,005	7	3,410	248,070	502,529 118
852	445,510	77	93,741	740	348,769	26	3,000	1,067,697	2,143,023 119
132	84,079	54	60,382	73	32,245	5	1,452	181,622	472,794 120
72	57,304	10	11,348	52	41,450	10	4,500	107,480	197,800 121
17	18,100	3	3,500	13	8,700	1	900	5,212	35,200 122
13	8,104	3	3,120	10	4,984			28,628	45,045 123
308	203,024	95	88,948	197	110,223	16	3,863	103,425	422,141 124
88	10,024	17	11,308	21	8,616			36,518	81,020 125
30	13,968	5	5,080	7	3,100	18	5,788	7,445	25,125 126
107	75,132	17	13,284	50	40,848	40	21,000	26,410	121,377 127
295	174,550	21	18,790	154	174,550	14	12,496	138,610	438,500 128
180	120,483	13	18,790	154	92,197			312,243	546,750 129
2,321	1,726,731	413	405,924	1,891	1,314,775	17	6,032	1,705,720	4,137,514 130
45	20,008	8	6,672	26	7,928	11	5,408	10,810	39,950 131

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BROOKLYN, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expen- ses.
			Value of hired prop- erty.	Direct investment.	
132	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	88	\$416,200	\$1,157,245	\$89,291
133	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	33	237,700	812,788	270,738
134	Pumps, not including steam pumps.....	3	3,000	10,850	4,272
135	Refrigerators	4	5,000	100,155	3,005
136	Regalia and society banners and emblems. (See also Flags and banners.)	8	7,470	4,552	910
137	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	80	157,300	1,279,015	78,372
138	Rubber and elastic goods	8	32,550	122,160	4,907
139	Saddlery and harness.....	112	170,950	231,100	21,908
140	Sausage. (See also Slaughtering.)	26	42,200	67,734	10,094
141	Sewing machine repairing.....	14	20,820	14,738	2,519
142	Sewing machines and attachments.....	4	17,500	97,450	3,313
143	Shipbuilding	26	320,350	13,212,090	43,705
144	Shirts. (See also Furnishing goods, men's.)	35	112,870	270,234	19,053
145	Silk and silk goods	11	331,000	784,987	71,928
146	Slaughtering and meat packing, wholesale. (See also Sausage.)	20	151,700	903,828	67,692
147	Slaughtering, wholesale, not including meat packing. (See also Sausage.)	17	186,600	768,700	52,310
148	Soap and candles. (See also Grease and tallow.)	20	91,500	570,642	31,877
149	Sporting goods	16	48,225	133,357	6,915
150	Stamped ware. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	9	493,840	1,278,936	138,770
151	Stationery goods, not elsewhere specified.....	6	9,300	171,790	3,783
152	Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	4	29,400	67,500	4,170
153	Steam packing	3	8,200	8,125	940
154	Sugar and molasses, refining.....	8	255,022	3,743,888	226,800
155	Surgical appliances	6	22,950	54,300	2,537
156	Taxidermy	7	8,680	6,355	1,014
157	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	186	415,300	1,648,607	120,024
158	Tobacco, chewing, smoking, and snuff	5	4,270	352,973	269,121
159	Tobacco, cigars and cigarettes	549	1,027,700	1,103,024	318,582
160	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware)	16	22,650	109,573	8,505
161	Toys and games	16	88,400	262,752	21,007
162	Trunks and valises. (See also Leather goods.)	10	72,400	27,530	6,802
163	Umbrellas and canes	26	84,070	135,860	11,600
164	Upholstery materials. (See also Worsted goods.)	9	28,000	36,700	2,701
165	Varnish. (See also Paints.)	11	43,500	1,408,673	297,163
166	Vinegar and cider	8	20,700	208,012	19,850
167	Watch cases	6	127,100	504,730	42,307
168	Watch, clock, and jewelry repairing. (See also Jewelry.)	122	237,000	144,576	20,148
169	Window shades	9	204,510	370,490	925,908
170	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	21	63,420	433,322	26,748
171	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	29	41,700	328,970	18,274
172	All other industries (a)	94	1,119,512	21,448,873	1,413,905

a Embraces ammunition, 1; bagging, flax, hemp, and jute, 1; bags, other than paper, 1; baking and yeast powders, 2; bellows, 2; belting and hose, linen, 2; brass and copper, rolled, 1; bridges, 2; bronze castings, 1; cardboard, 1; cars and general shop construction and repairs by street railroad companies, 1; cars, street railroad, not including operations of railroad companies, 1; cheese and butter, urban dairy product, 1; china, decorating, 2; clock cases and materials, 1; clothing, horse, 1; cordials and syrups, 1; cotton waste, 1; enameled goods, 1; enameling, 1; envelopes, 1; felt goods, 1; fertilizers, 2; fireworks, 1; flavoring extracts, 1; galvanizing, 2; gloves and mittens, 1; glue, 1; gold and silver, reducing and refining, not from the ore, 1; grease and tallow, 2; hardware, saddlery, 1; ink, writing, 2; iron and steel, 1; iron and steel, pipe, wrought, 1; japanning, 2;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BROOKLYN, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
1,121	\$680,381	149	\$146,156	849	\$450,689	123	\$77,536	\$698,499	\$1,653,528		
845	657,964	93	91,140	543	380,850	200	170,965	250,304	1,398,851		
0	7,644	4	3,400	4	3,744	1	500	5,768	26,000		
60	40,348	5	6,800	55	33,548	.....	.....	48,706	123,900
10	6,120	8	5,554	1	416	1	150	5,527	14,600		
911	670,445	117	127,271	769	530,001	25	9,273	782,935	2,157,154		
114	54,656	18	18,044	60	24,912	36	10,800	81,960	213,920		
269	184,781	117	86,300	173	95,133	9	3,348	148,194	414,624		
79	40,903	24	14,405	55	26,498	.....	.....	129,292	280,435
19	10,163	13	6,027	6	3,536	.....	.....	4,383	22,000
35	30,610	4	6,200	31	24,419	.....	.....	15,390	62,500
2,940	2,004,797	57	83,571	2,855	1,880,402	28	40,824	1,068,776	3,425,174		
580	172,856	42	37,222	304	94,651	144	40,983	114,534	338,618		
799	278,446	35	44,350	385	199,150	379	34,946	507,185	1,049,475		
301	232,915	44	58,738	257	174,177	.....	.....	5,348,494	6,234,618
243	258,802	51	96,590	170	144,282	13	17,500	6,291,955	6,852,736		
108	128,360	59	61,132	128	64,062	11	3,106	489,701	787,888		
272	98,352	21	16,423	210	70,615	41	11,314	68,076	218,049		
1,201	499,442	61	60,018	642	381,060	558	107,464	1,393,741	2,221,206		
160	75,266	14	13,080	91	30,748	55	21,840	79,560	206,400		
83	60,444	19	17,060	64	42,784	.....	.....	111,803	222,287
14	6,812	4	2,340	10	4,472	.....	.....	6,075	17,650
590	380,558	42	73,224	543	254,760	11	2,574	14,817,012	16,629,982		
28	19,628	11	11,750	17	7,878	.....	.....	22,053	61,028
7	4,510	7	4,510	.....	.....	.....	.....	2,824	9,820
1,502	885,834	207	236,090	1,090	502,710	220	87,025	1,309,111	2,912,073		
530	223,263	19	18,972	271	98,003	240	106,288	610,510	1,253,901		
1,740	955,785	407	334,193	496	236,337	756	385,255	904,046	2,465,274		
115	81,752	25	23,021	61	43,599	20	15,132	47,758	108,035		
434	135,710	28	27,776	199	64,632	207	43,302	87,124	311,340		
52	31,195	10	10,030	39	19,115	3	2,000	27,095	87,742		
102	95,133	37	32,015	123	62,708	2	350	82,780	244,206		
81	57,104	.....	.....	73	52,044	8	4,160	50,530	132,000
235	227,312	84	133,000	151	94,312	.....	.....	1,058,247	1,849,084
88	62,802	12	16,124	76	46,738	.....	.....	112,224	255,138
413	328,824	40	43,980	280	218,045	93	65,890	933,235	1,553,993		
246	140,634	122	81,063	104	52,266	20	6,405	68,284	281,176		
144	110,272	48	52,460	96	57,812	.....	.....	346,928	1,560,818
207	100,096	27	34,768	153	86,001	117	78,020	287,582	560,752		
233	175,406	36	49,492	186	118,308	11	7,666	150,272	411,626		
5,387	2,947,885	348	428,117	4,551	2,342,139	488	177,629	19,362,707	26,166,416		

jewelry and instrument cases, 2; jute and jute goods, 1; lamps and reflectors, 1; lead, bar, pipe, and sheet, 2; leather, dressed skins, 1; leather, patent and enameled, 1; lumber and other mill products from logs or bolts, 1; malt, 1; mirrors, 2; nets and sponges, 1; oil, cottonseed and cake, 1; oil, essential, 2; oil, linseed, 1; paper, 1; pencils, lead, 1; pens, gold, 1; petroleum, refining, 2; photographic apparatus, 2; photographic materials, 2; rice, cleaning and polishing, 2; rubber, vulcanized, 1; rules, ivory and wood, 1; sand and emery paper and cloth, 1; saws, 2; scales and balances, 2; show cases, 1; smelting and refining, 2; stencils and brands, 1; straw goods, not elsewhere specified, 1; vault lights and ventilators, 1; washing machines and clothes wringers, 1; watch and clock materials, 2; wheelbarrows, 1; wire, 1; woodenware, not elsewhere specified, 1; worsted goods, 2.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BUFFALO, N. Y.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries.....	3,565	\$10,526,219	\$70,707,145	\$7,480,363
2	Awnings, tents, and sails.....	7	35,800	40,837	3,813
3	Baking and yeast powders.....	3	7,500	16,884	1,865
4	Baskets and rattan and willow ware.....	9	1,000	36,304	709
5	Belting and hose, leather.....	3	113,750	74,647	12,550
6	Bicycle and tricycle repairing.....	5	12,640	7,700	2,273
7	Billiard tables and materials.....	3	11,000	555	1,007
8	Blacking.....	4	21,200	37,933	3,081
9	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	115	132,000	370,859	18,312
10	Bluing.....	3	1,320	4,125	196
11	Bookbinding and blank-book making. (See also Printing and publishing.)	5	18,000	53,825	2,109
12	Boots and shoes, custom work and repairing.....	254	246,300	382,102	20,214
13	Boots and shoes, factory product.....	18	160,500	446,691	35,512
14	Bottling. (See also Liquors, malt; Mineral and soda waters.)	8	20,450	11,245	5,654
15	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	8	33,355	52,125	3,984
16	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	3	34,885	68,016	12,922
17	Brass castings and brass finishing.....	10	30,550	319,872	9,180
18	Bread and other bakery products.....	115	255,000	903,501	83,403
19	Brick and tile. (See also Clay and pottery products.)	13	47,000	704,433	26,807
20	Bridges.....	3	208,200	68,000	30,575
21	Brooms and brushes.....	11	1,200	109,005	6,806
22	Carpentering.....	201	92,719	1,120,098	410,065
23	Carpets, rag.....	9	600	24,222	500
24	Carriage and wagon materials.....	5	51,200	127,848	15,583
25	Carriages and sleds, children's.....	4	70,000	80,190	2,360
26	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	55	112,560	1,326,110	60,288
27	Cars and general shop construction and repairs by steam railroad companies.....	8	.....	701,808	.....
28	Cheese and butter, urban dairy product.....	7	13,685	3,098	1,836
29	Chemicals. (See also Fertilizers; Paints; Varnish.)	4	38,710	625,705	45,170
30	Clay and pottery products. (See also Brick and tile.)	3	.....	107,020	2,722
31	Clothing, men's, custom work and repairing.....	212	625,695	1,157,702	81,788
32	Clothing, men's, factory product.....	34	471,980	1,617,077	48,376
33	Clothing, women's, dressmaking.....	623	607,255	404,200	63,585
34	Clothing, women's, factory product.....	4	55,144	40,195	4,206
35	Coffee and spice, roasting and grinding.....	6	54,210	63,500	8,036
36	Confectionery.....	30	387,000	203,645	36,407
37	Cooperage.....	29	13,880	310,365	13,546
38	Corsets.....	4	3,875	12,225	413
39	Cutlery and edge tools. (See also Files; Hardware; Tools, not elsewhere specified.)	9	7,200	188,027	3,087
40	Dentistry, mechanical.....	34	114,625	40,040	9,506
41	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.)	35	15,185	21,811	1,816
42	Dyeing and cleaning.....	7	6,850	149,025	3,800
43	Electric light and power.....	4	17,745	1,677,585	31,976
44	Electroplating.....	3	8,375	3,500	739
45	Engraving and diesinking.....	5	5,680	1,700	408
46	Engraving, wood.....	3	5,750	770	304
47	Fancy articles, not elsewhere specified.....	18	37,345	15,480	3,270
48	Files. (See also Cutlery and edge tools.)	3	3,000	21,200	860
49	Flavoring extracts.....	8	30,100	20,337	3,810
50	Flouring and grist-mill products.....	8	306,800	1,030,541	103,510
51	Food preparations. (See also Fruits and vegetables, canning and preserving.)	6	5,650	66,785	2,670
52	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	63	813,960	7,930,066	552,733
53	Fruits and vegetables, canning and preserving. (See also Food preparations; Pickles, preserves, and sauces.)	3	33,325	70,325	6,200
54	Fur goods. (See also Hats and caps, not including wool hats.)	5	36,875	52,350	3,540
55	Furnishing goods, men's. (See also Shirts.)	6	21,000	* 35,945	2,869
56	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	35	84,345	186,009	10,138

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued

BUFFALO, N. Y.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
51,433	\$25,495,833	5,522	\$4,928,064	37,547	\$17,576,157	8,364	\$2,991,612	\$54,120,611	\$100,052,208
65	32,064	13	9,121	52	22,043	.....	.....	50,872	111,473
19	3,444	1	300	18	3,144	.....	.....	15,792	25,030
32	6,537	9	3,368	9	1,944	14	1,225	4,493	13,775
84	38,134	12	10,940	60	25,194	12	2,000	202,792	308,697
18	11,112	3	2,750	15	8,362	.....	.....	3,895	20,600
5	2,905	2	1,680	1	900	2	325	440	6,025
44	14,580	13	8,924	31	5,636	.....	.....	34,895	75,560
354	230,215	132	102,920	219	126,395	3	900	132,130	442,147
10	2,050	4	1,900	6	750	.....	.....	4,470	9,000
82	31,924	12	11,100	58	18,324	12	2,500	21,525	73,100
470	222,592	241	125,257	138	56,320	91	41,006	151,571	469,855
711	260,500	39	37,046	522	105,032	150	53,982	444,185	876,116
40	22,811	8	8,350	32	14,461	.....	.....	64,635	99,975
190	37,100	9	10,230	181	26,804	.....	.....	45,890	104,000
110	41,102	8	6,108	85	27,880	17	7,168	111,611	172,764
149	95,619	32	30,732	117	64,917	.....	.....	66,082	192,704
851	412,069	210	151,113	616	258,256	19	3,300	1,111,017	1,975,714
668	204,102	17	15,076	649	187,034	2	1,482	57,447	380,076
248	172,937	8	27,500	240	145,497	.....	.....	614,450	991,500
81	33,255	11	8,890	22	10,790	48	13,575	51,898	107,246
2,052	1,312,585	225	246,482	1,818	1,063,743	9	2,300	2,144,747	4,197,777
14	5,220	8	3,364	4	1,050	2	800	3,294	10,280
126	61,063	10	10,031	44	20,038	63	24,094	141,987	242,676
50	23,812	5	4,472	33	12,315	12	7,025	34,430	83,700
758	434,331	98	104,824	535	272,947	125	56,500	539,350	1,230,126
3,371	1,071,457	28	27,445	3,338	1,640,502	5	3,510	901,144	2,007,438
14	7,280	7	3,880	7	3,400	.....	.....	12,885	25,271
136	103,478	14	30,289	122	73,189	.....	.....	407,329	700,707
59	27,844	5	4,720	54	23,124	.....	.....	22,037	87,905
1,538	803,034	248	218,183	618	250,276	672	325,575	933,660	2,180,424
2,037	680,378	105	144,200	247	111,674	1,085	430,444	1,584,806	2,520,143
2,012	561,749	657	313,207	1,354	248,442	1	100	60,192	781,277
146	40,430	9	13,430	94	21,000	45	12,000	60,210	157,750
44	33,448	18	20,760	26	12,088	.....	.....	312,298	407,800
658	169,392	91	58,155	551	110,957	16	280	507,796	845,760
439	201,061	31	25,224	88	45,398	320	131,330	324,573	589,406
12	5,100	4	3,010	8	2,090	.....	.....	4,815	12,380
78	46,557	12	5,220	66	41,337	.....	.....	28,379	119,080
54	40,810	30	26,250	23	14,000	1	500	35,350	121,605
44	13,581	29	10,025	15	3,556	.....	.....	25,040	57,010
57	30,444	11	11,254	46	19,190	.....	.....	10,081	52,500
101	73,709	13	12,040	88	61,759	.....	.....	53,431	296,906
9	6,122	3	2,560	3	1,630	3	1,872	1,480	9,800
10	5,848	5	4,790	5	1,058	.....	.....	496	7,800
5	3,598	3	3,200	2	338	.....	.....	400	5,800
71	16,222	19	9,590	17	3,207	35	3,425	12,855	36,400
31	17,818	5	5,056	24	11,826	2	936	7,055	33,800
23	10,166	10	7,638	12	2,976	1	157	19,712	49,632
189	114,737	29	29,210	154	82,527	6	3,000	3,142,602	3,053,098
29	16,438	7	7,400	22	8,038	.....	.....	31,321	54,850
4,756	2,509,105	273	816,092	3,000	1,563,205	1,483	629,808	3,323,413	7,334,748
237	21,363	8	4,250	112	8,693	117	8,420	27,498	61,800
45	13,471	4	2,640	41	10,881	.....	.....	50,000	97,000
451	63,711	8	5,520	50	17,708	393	40,423	72,043	152,733
119	69,425	38	27,880	79	40,189	2	1,350	102,699	221,945

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BUFFALO, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired prop-erty.	Direct investment.	
57	Furniture, factory product. (See also Furniture, chairs.)	22	\$203,425	\$1,175,037	\$71,215
58	Gas, illuminating and heating	3	17,000	2,501,441	73,165
59	Glass, cutting, staining, and ornamenting	3	16,500	29,780	1,707
60	Gloves and mittens. (See also Hosiery and knit goods.)	3	36,785	101,000	3,800
61	Glue	3	15,000	100,606	3,968
62	Hairwork	6	52,825	27,600	4,490
63	Hand stamps	3	23,225	51,050	2,161
64	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	5	101,000	204,384	8,760
65	Hats and caps, not including wool hats. (See also Fur goods.)	5	31,700	15,550	2,295
66	Iron and steel, bolts, nuts, washers, and rivets	3	.....	525,750	16,500
67	Iron and steel, forgings	8	6,700	805,951	39,115
68	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	5	22,750	210,300	4,874
69	Jewelry. (See also Watch, clock, and jewelry repairing.)	4	24,375	106,050	2,167
70	Jewelry and instrument cases	5	40,000	90,661	5,545
71	Leather, tanned and curried	8	.....	2,009,816	121,380
72	Lime and cement	4	.....	1,014,895	72,650
73	Liquors, malt. (See also Bottling.)	19	.....	5,357,413	1,028,824
74	Lithographing and engraving. (See also Engraving, steel, including plate printing; Photolithographing and engraving; Printing and publishing.)	5	85,000	1,159,957	81,358
75	Lock and gunsmithing	9	11,450	22,350	1,269
76	Looking-glass and picture frames	26	128,920	280,645	18,172
77	Lumber, planing-mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	29	145,000	2,882,448	303,396
78	Malt. (See also Liquors, malt.)	22	184,585	3,299,195	145,916
79	Marble and stone work. (See also Monuments and tombstones.)	10	24,885	325,352	110,837
80	Masonry, brick and stone. (See also Plastering and stuccowork.)	100	81,700	1,025,820	120,656
81	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	9	60,045	53,732	7,334
82	Machinery, custom work	67	247,250	318,030	24,065
83	Mineral and soda waters. (See also Bottling.)	11	34,000	90,993	11,650
84	Models and patterns	8	14,050	11,505	1,261
85	Monuments and tombstones. (See also Marble and stone work.)	14	8,625	153,381	3,365
86	Musical instruments and materials, not specified. (See also Musical instruments, organs and materials.)	4	8,200	6,380	680
87	Musical instruments, pianos and materials	4	41,335	113,859	4,177
88	Optical goods	3	3,750	1,360	300
89	Painting and paper hanging	131	369,690	870,801	144,830
90	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	27	90,715	644,028	711,024
91	Paving and paving materials	9	51,200	528,999	143,317
92	Petroleum, refining	3	21,942	1,778,931	73,279
93	Photography	43	171,235	117,765	16,976
94	Pickles, preserves, and sauces. (See also Fruits and vegetables, canning and preserving.)	6	13,000	141,121	4,932
95	Plastering and stuccowork. (See also Masonry, brick and stone.)	16	5,020	32,363	1,615
96	Plumbing and gas fitting	63	160,000	673,560	33,138
97	Printing and publishing, book and job. (See also Bookbinding and blank-book making; Printing and publishing, music.)	40	309,385	507,554	39,460
98	Printing and publishing newspapers and periodicals. (See also Bookbinding and blank-book making.)	38	612,640	926,596	204,962
99	Refrigerators	5	65,000	632,775	71,709
100	Roofing and roofing materials. (See also Tin-smithing, coppersmithing, and sheet-iron working.)	8	35,575	43,350	5,598
101	Saddlery and harness	27	70,275	281,864	9,965
102	Sausage. (See also Slaughtering.)	5	11,222	44,836	2,111
103	Seals and balances	3	10,000	104,525	4,100
104	Sewing machine repairing	4	4,400	8,545	542
105	Shipbuilding	14	60,857	1,045,060	25,212
106	Shirts. (See also Furnishing goods, men's.)	6	26,140	122,141	3,810
107	Slaughtering and meat packing, wholesale. (See also Sausage.)	6	13,300	2,545,560	111,501
108	Slaughtering, wholesale, not including meat packing. (See also Sausage.)	28	20,000	369,720	17,343
109	Soup and candles. (See also Grease and tallow.)	13	72,500	1,359,535	234,054
110	Stereotyping and electrotyping. (See also Type founding.)	4	15,934	9,500	1,461
111	Surgical appliances. (See also Artificial limbs.)	4	17,250	11,105	1,554

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BUFFALO, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES.

Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
1,130	\$612,312	72	\$77,184	946	\$477,891	112	\$57,197	\$61,685	\$1,587,267 57
161	118,306	19	35,087	142	83,219	—	—	131,875	738,538 58
43	34,954	4	5,700	38	29,054	1	200	13,150	58,851 59
86	38,018	5	6,980	50	21,360	31	9,678	114,025	217,500 60
47	28,410	6	9,650	41	18,760	—	—	102,248	147,709 61
27	12,342	9	7,330	18	5,012	—	—	10,890	36,100 62
29	16,120	7	5,996	22	10,124	—	—	9,149	38,055 63
371	157,151	15	13,026	194	66,720	102	77,396	87,515	239,853 64
40	18,518	7	7,700	22	6,868	11	3,950	14,629	51,300 65
357	128,820	3	1,998	334	126,822	—	—	305,850	607,000 66
453	290,087	23	33,374	430	256,713	—	—	409,614	946,122 67
125	77,057	9	13,305	116	63,752	—	—	33,998	441,700 68
112	70,434	21	30,100	91	40,334	—	—	100,701	220,000 69
171	53,998	12	14,155	150	38,643	9	1,200	52,050	139,811 70
629	312,438	33	48,100	506	264,338	—	—	1,698,625	2,390,400 71
193	84,884	6	10,400	187	74,484	—	—	54,170	229,068 72
583	439,343	60	62,884	523	376,450	—	—	1,235,656	3,274,376 73
815	517,183	63	91,212	721	380,770	31	45,201	461,007	1,480,862 74
21	10,395	11	5,046	10	3,349	—	—	5,407	20,525 75
135	61,395	29	22,068	104	38,927	2	400	110,613	255,350 76
2,146	1,125,836	107	110,604	2,009	987,232	30	19,000	1,988,931	3,918,819 77
574	270,125	42	62,880	592	207,245	—	—	2,680,417	3,614,835 78
370	227,830	25	26,670	299	185,127	46	16,062	338,034	767,317 79
2,000	1,611,002	150	211,651	2,745	1,394,291	9	5,150	1,682,485	3,722,779 80
78	36,225	11	12,050	54	18,597	13	5,548	87,564	139,618 81
328	101,819	76	42,196	251	59,423	1	200	298,282	410,360 82
98	49,421	15	13,100	83	36,321	—	—	41,134	152,150 83
22	14,650	7	5,680	15	8,979	—	—	1,602	23,948 84
87	67,047	19	21,308	66	44,339	2	1,400	92,602	193,257 85
6	2,220	4	1,900	1	200	1	120	2,555	7,720 86
91	67,090	9	13,812	82	53,278	—	—	86,197	190,900 87
6	4,200	3	2,800	3	1,500	—	—	1,836	6,800 88
1,354	800,543	293	186,660	973	522,110	148	92,373	728,611	1,025,073 89
271	129,628	87	53,140	122	55,366	62	21,122	267,961	1,809,100 90
1,422	525,109	31	27,324	1,381	497,165	10	620	463,535	1,472,804 91
274	152,503	25	21,590	217	111,541	32	19,372	1,499,257	1,822,020 92
158	93,470	33	50,004	90	41,440	6	1,426	53,386	222,593 93
44	26,948	17	15,568	27	11,380	—	—	55,837	132,000 94
98	64,674	20	16,594	78	48,080	—	—	44,268	127,300 95
815	437,012	103	107,599	690	328,863	22	550	693,105	1,360,070 96
530	278,629	74	72,412	451	204,089	5	2,128	218,143	620,060 97
1,095	626,969	129	122,019	707	361,006	259	143,944	345,562	1,451,651 98
449	219,706	21	32,588	173	66,712	255	120,406	225,409	600,170 99
704	57,530	16	16,430	88	41,100	—	—	96,575	175,000 100
194	101,562	45	37,374	112	49,592	37	14,590	124,129	273,838 101
23	13,686	4	4,300	19	9,386	—	—	53,555	81,100 102
162	84,080	15	14,030	129	56,640	18	14,004	46,880	190,800 103
5	2,044	3	1,314	2	730	—	—	605	3,709 104
569	403,642	31	36,425	500	340,817	38	26,400	311,650	1,012,095 105
847	124,610	14	13,675	22	8,355	811	102,580	123,620	274,000 106
674	360,313	51	54,162	607	306,190	16	5,952	6,406,186	7,719,970 107
182	107,910	30	42,212	121	53,518	22	12,180	1,970,978	2,231,074 108
490	205,594	79	72,282	304	130,350	17	2,962	1,315,428	2,073,547 109
17	12,396	5	6,236	12	6,160	—	—	4,625	21,345 110
12	7,146	6	4,080	6	3,066	—	—	2,625	18,000 111

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
BUFFALO, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
112	Taxidermy.....	3	\$4,050	\$1,075	\$924
113	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	108	171,625	1,002,250	122,480
114	Tobacco, cigars and cigarettes.....	163	119,305	610,480	104,315
115	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	4	17,500	158,228	8,930
116	Trunks and valises. (See also Leather goods.)	7	46,250	20,250	4,568
117	Umbrellas and canes.....	6	8,200	18,377	945
118	Watch, clock, and jewelry repairing. (See also Jewelry.).....	80	170,100	109,945	15,685
119	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	5	35,750	79,600	3,763
120	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	10	23,500	20,202	2,572
121	All other industries (a).....	76	476,186	8,202,442	1,225,045

a Embraces agricultural implements, 1; artificial limbs, 1; axle grease, 1; bicycles and tricycles, 1; boot and shoe uppers, 2; boxes, cigar 2; calcium lights, 1; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 2; china, decorating, 1; clothing, men's, factory product, buttonholes, 2; coffins, burial cases, and undertakers' goods, 1; cordage and twine, 1; cotton goods, 1; dye stuffs and extracts, 1; engraving, steel, including plate printing, 1; envelopes, 1; fertilizers, 2; furniture, chairs, 1; galvanizing, 1; glucose, 1; grease and tallow, 1; hand knif goods, 1; hay and straw, baling, 2; hosiery and knit goods, 1; ink, printing, 1; ink, writing, 1; instruments, professional and scientific, 2; kindling wood, 2; lamps and reflectors, 1; lasts, 2; leather goods, 2; liquors, distilled, 1; lumber,

BURLINGTON, IOWA.

1	All industries	223	492,849	3,903,086	259,615
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	12	7,200	17,240	1,245
3	Boots and shoes, custom work and repairing.....	9	7,760	4,440	829
4	Bread and other bakery products.....	8	7,418	113,152	3,350
5	Brick and tile.....	4	-----	58,800	765
6	Carpentering	22	6,491	36,570	13,776
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	9	1,750	304,060	11,104
8	Clothing, men's, custom work and repairing	10	37,556	58,091	5,029
9	Confectionery.....	4	20,000	40,952	2,545
10	Cooperage	4	-----	31,300	2,812
11	Foundry and machine shop products	5	600	260,525	19,450
12	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	3	2,727	7,205	454
13	Furniture, factory product.....	7	48,000	250,010	20,528
14	Lumber and other mill products from logs or bolts	5	7,500	623,260	31,241
15	Marble and stone work. (See also Monuments and tombstones.)	3	1,545	15,525	1,315
16	Masonry, brick and stone. (See also Plastering and stuccowork.)	9	745	6,575	82
17	Millinery, custom work.....	10	38,727	23,815	4,051
18	Painting and paper hanging.....	4	6,328	5,855	902
19	Photography	6	21,333	12,235	2,149
20	Plastering and stuccowork. (See also Masonry, brick and stone.)	3	600	1,350	72
21	Plumbing and gas fitting	3	16,944	25,100	2,095
22	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	4	34,863	54,007	4,850
23	Printing and publishing, newspapers and periodicals. (See also Bookbinding, and blank-book making.)	7	39,750	93,250	21,355
24	Saddlery and harness.....	5	29,500	111,385	6,392
25	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	7	25,100	28,850	3,245
26	Tobacco, cigars and cigarettes.....	16	47,773	60,110	16,275
27	All other industries (a).....	41	87,639	1,700,034	82,195

a Embraces agricultural implements, 1; awnings, tents, and sails, 1; bookbinding and blank-book making, 1; boxes, cigar, 1; boxes, wooden packing, 2; brooms and brushes, 1; carpets, rag, 2; cars and general shop construction and repairs by steam railroad companies, 1; cheese and butter, urban dairy product, 1; clothing, men's, factory product, 1; coffins and burial cases, trimming and finishing, 1; coffins, burial cases, and undertakers' goods, 1; dyeing and cleaning, 1; flouring and grist mill products, 2; fruits and vegetables, canning and preserving, 1; fur goods, 1; gas, illuminating and heating, 1; grease and

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

BUFFALO, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										Value of products, including receipts from custom work and repairing.	
Aggregates.		Officers, firm mem- bers, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of ma- terials used.			
Average number.	Total wages.	Num- ber.	Wages.	Number.	Wages.	Num- ber.	Wages.				
5	\$2,730	3	\$2,500	1	\$200	1	\$30	\$1,220	\$5,400	112	
1,024	517,469	120	114,063	784	394,091	111	9,315	834,272	1,688,066	113	
642	326,933	159	100,046	162	55,166	321	161,821	277,100	818,858	114	
126	57,896	7	8,500	70	30,218	49	10,178	39,405	121,888	115	
40	21,955	8	9,180	24	10,675	8	2,100	25,455	71,500	116	
15	6,646	8	4,074	7	2,572	-----	-----	6,166	21,290	117	
154	85,542	71	46,716	83	38,826	-----	4,996	34,583	166,088	118	
50	29,026	10	11,330	28	13,300	21	-----	37,045	83,250	119	
60	35,022	11	8,852	48	25,970	1	800	11,633	57,912	120	
3,277	1,805,633	258	264,746	2,754	1,382,273	265	158,614	6,169,347	9,434,530	121	

and other mill products from logs or bolts, 2; mantels, slate, marble, and marbleized, 1; musical instruments, organs and materials, 2; nets and seines, 1; oil, linseed, 2; oil, lubricating, 1; paints, 2; perfumery and cosmetics, 1; photographic materials, 1; photolithographing and engraving, 2; printing and publishing, music, 2; regalia and society banners and emblems, 1; safes 1; show cases, 1; sporting goods, 1; stamped ware, 2; starch, 2; steam fittings and heating apparatus, 1; stencils and vanities, 1; wash machines, 1; washing machines and brands, 1; toys and games, 1; type founding, 1; upholstery materials, 1; varnish, 1; vinegar and cider, 1; washing machines and clothes wringers, 1.

BURLINGTON, IOWA.

3,264	1,424,178	329	266,764	2,543	981,122	392	176,202	3,000,200	5,413,138	1
26	11,973	10	4,798	16	7,175	-----	-----	9,485	32,800	2
12	4,104	5	1,944	7	2,250	-----	-----	3,767	13,448	3
81	35,000	13	9,080	68	25,320	-----	-----	148,498	223,135	4
79	27,170	1	1,040	48	18,630	30	7,500	13,221	52,702	5
139	70,602	22	15,819	117	63,783	-----	-----	115,095	230,703	6
202	101,480	17	17,351	183	83,285	2	850	192,600	340,020	7
60	40,485	6	3,185	8	4,425	55	32,875	30,106	101,041	8
23	8,200	4	2,150	10	6,050	-----	-----	45,160	70,850	9
39	17,020	3	2,280	-----	-----	30	14,740	33,174	56,847	10
241	148,100	15	20,200	200	112,000	17	15,900	153,690	337,175	11
7	3,530	3	1,530	4	2,000	-----	-----	2,802	8,171	12
279	117,845	23	24,100	230	76,850	20	16,805	142,688	323,975	13
345	112,775	18	14,510	305	94,700	22	3,475	418,086	600,159	14
15	8,540	3	2,740	12	5,800	-----	-----	14,950	27,950	15
71	32,205	13	10,375	58	21,830	-----	-----	17,205	54,175	16
28	10,344	10	6,274	18	4,070	-----	-----	26,547	48,841	17
15	8,380	4	3,280	11	5,100	-----	-----	5,140	16,200	18
17	8,022	6	4,822	11	4,100	-----	-----	8,480	25,000	19
19	9,774	5	3,304	14	6,470	-----	-----	7,315	20,395	20
26	17,350	3	3,400	23	13,950	-----	-----	27,130	54,250	21
40	22,869	10	10,917	30	11,952	-----	-----	15,002	52,377	22
158	65,295	18	11,620	115	34,575	25	10,100	27,400	130,760	23
68	43,220	14	10,185	44	20,284	40	12,757	104,807	170,288	24
32	17,815	7	5,565	25	12,250	-----	-----	11,536	35,482	25
98	44,277	17	10,602	20	4,985	61	28,600	44,674	115,105	26
1,105	427,798	79	64,010	948	330,198	78	23,600	470,708	2,178,200	27

and other mill products from logs or bolts, 2; mantels, slate, marble, and marbleized, 1; musical instruments, organs and materials, 2; nets and seines, 1; oil, linseed, 2; oil, lubricating, 1; paints, 2; perfumery and cosmetics, 1; photographic materials, 1; photolithographing and engraving, 2; printing and publishing, music, 2; regalia and society banners and emblems, 1; safes 1; show cases, 1; sporting goods, 1; stamped ware, 2; starch, 2; steam fittings and heating apparatus, 1; stencils and vanities, 1; wash machines, 1; washing machines and brands, 1; toys and games, 1; type founding, 1; upholstery materials, 1; varnish, 1; vinegar and cider, 1; washing machines and clothes wringers, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CAMBRIDGE, MASS.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	1,232	\$3,930,373	\$20,331,585	\$2,370,252
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	49	70,800	89,669	9,091
3	Bookbinding and blank-book making. (See also Printing and publishing.)	3	11,350	10,900	1,218
4	Boots and shoes, custom work and repairing	84	116,650	8,828	10,672
5	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	4	42,620	172,372	14,455
6	Bread and other bakery products	35	160,000	381,068	72,971
7	Brick and tile. (See also Clay and pottery products)	7	2,500	691,839	23,306
8	Brooms and brushes	4	1,200	85,725	6,243
9	Carpentering	102	28,265	561,000	93,264
10	Carriage and wagon materials	4	5,538	400	305
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	13	65,750	171,075	12,968
12	Clay and pottery products. (See also Brick and tile)	3		134,300	2,402
13	Clothing, men's, custom work and repairing	41	137,450	59,615	13,491
14	Clothing, men's, factory product	3	4,875	97,555	2,175
15	Clothing, women's, dressmaking	281	371,735	40,160	34,438
16	Collins and burial cases, trimming and finishing	5	20,000	5,650	3,265
17	Confectionery	25	104,061	191,895	19,479
18	Cooperage	14	43,900	53,281	9,624
19	Dentistry, mechanical	13	20,625	3,205	2,544
20	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	40	30,810	11,305	3,027
21	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	15	292,891	2,092,076	423,106
22	Furniture, cabinetworking, repairing and upholstering. (See also Mattresses and spring beds.)	37	83,200	31,545	9,646
23	Furniture, factory product. (See also Furniture, chairs.)	11	257,100	364,398	58,652
24	Glass, cutting, staining, and ornamenting	3	4,600	6,400	500
25	Leather, tanned and curried	3		42,700	3,143
26	Lock and gun smithing	6	9,600	1,295	920
27	Looking-glass and picture frames	3	12,750	6,100	1,374
28	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	5	6,065	223,008	10,804
29	Marble and stone work. (See also Monuments and tombstones.)	8	28,125	115,500	4,242
30	Masonry, brick and stone. (See also Plastering and stuccowork.)	45	72,625	131,205	16,301
31	Mattresses and spring beds. (See also Furniture.)	4	5,275	23,475	984
32	Millinery, custom work	24	61,100	11,797	5,787
33	Monuments and tombstones. (See also Marble and stone work.)	8	12,565	96,375	3,529
34	Musical instruments, organs and materials. (See also Musical instruments and materials, not specified.)	3	750	903,238	60,588
35	Musical instruments, pianos and materials	9	256,460	543,471	65,984
36	Painting and paper hanging	77	127,375	75,520	10,904
37	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	3	3,250	680	500
38	Photography	6	13,175	3,385	1,471
39	Plastering and stuccowork. (See also Masonry, brick and stone.)	17	32,100	25,560	4,656
40	Plumbing and gas fitting	32	100,885	112,426	14,427
41	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	8	132,160	89,173	16,835
42	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	9	333,160	1,597,082	318,558
43	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	10	16,400	12,490	3,929
44	Saddlery and harness	14	34,135	9,085	3,239
45	Sausage. (See also Slaughtering.)	3	4,300	9,575	1,140
46	Soap and candles	8	80,112	561,709	36,610
47	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	18	78,400	145,127	31,378
48	Tobacco, cigars and cigarettes	13	30,550	16,350	5,073
49	Watch, clock, and jewelry repairing	17	39,250	4,635	3,698
50	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	4	11,200	10,300	3,097
51	All other industries (a)	79	552,080	10,282,703	895,122

a Embraces baking and yeast powders, 1; bicycles and tricycles, 1; boots and shoes, rubber, 1; boxes, fancy and paper, 1; brass, 1; cheese and butter, urban dairy product, 1; chemicals, 1; collins, burial cases, and undertakers' goods, 1; collars and cuffs, paper, 1; cordage and twine, 2; cotton goods, 1; cutlery and edge tools, 2; dyeing and cleaning, 2; electrical apparatus and supplies, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 2; fertilizers, 1; flavoring extracts, 2; food preparations, 2; fur goods, 1; furniture, chairs, 1; galvanizing, 1; gas, illuminating and heating, 1; gloves and mittens, 1; hairwork, 2; hardware, 1; hats and caps, not including wool hats, 1; hosiery and knit goods, 1; instruments, professional and scientific, 1; iron and steel, 1; ironwork, architectural and ornamental, 1; kindling wood, 2;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CAMBRIDGE, MASS.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES,										Value of products, including receipts from custom work and repairing.
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Piece-workers.		Cost of materials used.		
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	
14,258	\$7,759,833	1,677	\$1,261,850	10,621	\$5,412,974	2,560	\$1,084,980	\$20,268,524	\$35,075,089	1
153	107,382	50	42,432	103	61,950	.....	.....	53,572	195,895	2
34	18,625	4	3,500	27	12,625	3	2,500	4,514	27,000	3
128	62,220	81	39,146	35	15,274	12	7,800	26,338	104,169	4
175	95,152	5	5,200	152	78,511	18	11,441	119,042	290,897	5
506	240,141	66	41,861	340	169,680	100	28,000	741,326	1,417,140	6
576	217,092	13	14,781	559	200,308	4	2,000	159,180	489,800	7
51	19,724	13	8,570	34	8,860	4	2,288	43,063	103,855	8
707	519,549	121	110,881	586	408,065	.....	.....	733,228	1,580,500	9
5	2,205	4	1,995	1	300	.....	.....	1,524	4,700	10
172	117,458	13	11,024	143	90,434	16	10,000	104,303	280,225	11
96	43,670	6	5,950	88	36,220	2	1,500	17,630	82,700	12
188	62,596	42	28,834	97	41,612	49	22,150	79,300	202,888	13
178	63,320	2	1,250	26	13,750	150	50,320	156,512	266,000	14
605	105,333	282	65,112	323	70,221	.....	.....	263,696	475,803	15
11	7,250	5	3,850	6	3,400	.....	.....	10,644	27,800	16
317	142,062	38	28,607	289	100,205	20	4,160	362,810	684,875	17
105	50,349	18	12,918	65	31,680	22	11,742	83,760	160,467	18
15	8,181	13	7,231	2	950	.....	.....	6,089	17,450	19
50	12,250	42	10,090	8	1,560	.....	.....	21,301	43,514	20
1,075	704,081	66	84,440	1,000	619,641	.....	.....	827,389	2,478,730	21
111	63,376	44	24,822	67	38,554	.....	.....	53,905	138,000	22
636	425,340	26	24,588	543	368,374	67	32,387	227,590	750,740	23
12	8,413	3	2,613	9	5,800	.....	.....	5,076	10,200	24
73	45,960	5	5,460	62	35,500	6	5,000	300,450	369,000	25
7	3,143	6	2,743	1	400	.....	.....	1,922	5,700	26
12	6,980	3	2,530	9	4,450	.....	.....	10,955	25,250	27
225	145,050	13	8,300	212	136,750	.....	.....	133,150	384,470	28
127	96,370	8	8,030	107	81,140	12	7,200	123,683	264,000	29
362	243,190	50	47,010	312	106,150	.....	.....	143,156	427,647	30
21	9,409	3	1,750	18	7,659	.....	.....	9,100	24,565	31
58	21,404	24	11,674	34	9,730	.....	.....	22,097	51,800	32
69	45,349	8	7,249	61	38,100	.....	.....	21,407	95,200	33
380	277,223	20	25,000	6	3,902	354	248,321	107,077	642,870	34
514	320,514	31	43,340	400	243,326	83	42,848	328,767	907,813	35
307	213,711	82	63,811	213	142,550	12	7,350	98,193	356,800	36
4	950	3	875	1	75	.....	.....	1,687	3,450	37
8	3,900	6	3,100	2	800	.....	.....	2,666	9,200	38
105	77,610	19	17,810	84	58,600	2	1,200	30,610	123,600	39
201	138,010	43	38,170	158	90,840	.....	.....	142,921	356,790	40
279	175,359	13	11,499	266	163,860	.....	.....	42,033	251,369	41
628	370,438	73	78,385	355	199,051	200	102,002	567,671	1,556,056	42
44	29,295	12	8,830	32	20,375	.....	.....	19,497	57,250	43
30	19,704	12	9,080	17	10,024	1	600	13,001	46,599	44
17	10,550	3	1,950	14	8,600	.....	.....	38,888	55,750	45
292	160,076	31	41,254	239	113,032	19	6,300	978,362	1,303,870	46
131	73,403	25	20,048	97	48,155	9	5,200	197,608	319,603	47
40	22,749	11	7,174	18	9,625	11	5,950	16,272	54,431	48
32	17,550	17	9,900	15	7,650	.....	.....	2,977	29,100	49
36	22,690	4	3,760	32	18,900	.....	.....	12,195	36,846	50
4,320	1,906,839	192	172,742	2,744	1,358,057	1,384	466,010	12,701,763	18,367,522	51

labels and tags, 1; lime and cement, 1; liquors, distilled, 1; models and patterns, 1; musical instruments and materials, not specified, 2; nets and seines, 1; optical goods, 1; paving and paving materials, 1; photographic materials, 1; pickles, preserves, and sauces, 1; plated and britannia ware, 1; plumbers' supplies, 2; pulp goods, 1; rubber and elastic goods, 1; safes and vaults, 1; sewing machine repairing, 2; shipbuilding, 2; slaughtering and meat packing, wholesale, 2; slaughtering, wholesale, not including meat packing, 1; sporting goods, 1; springs, steel, car and carriage, 1; stamped ware, 2; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; steam packing, 2; tools, not elsewhere specified, 1; trunks and valises, 2; umbrellas and canes, 1; vinegar and cider, 1; whips, 1; window shades, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CAMDEN, N. J.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	658	\$2,073,188	\$15,244,506	\$700,452
2	Baskets and rattan and willow ware.....	3	1,525	2,175	189
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	24	38,190	26,320	4,216
4	Boots and shoes, custom work and repairing.....	51	71,825	21,328	6,983
5	Boots and shoes, factory product	25	37,630	215,806	9,125
6	Bottling. (See also Mineral and soda waters.)	4	10,700	32,382	1,065
7	Bread and other bakery products	36	78,375	66,661	9,005
8	Brooms and brushes	5	3,150	3,420	402
9	Carpentering	47	35,000	476,068	15,044
10	Carpets, rag	8	7,950	8,864	1,143
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	8	146,775	107,429	10,943
12	Clothing, men's, custom work and repairing	12	24,450	41,800	2,985
13	Clothing, women's, dressmaking	34	42,065	26,670	3,695
14	Coffins and burial cases, trimming and finishing	6	9,750	23,275	1,194
15	Confectionery	12	65,450	19,845	4,569
16	Cooperage	3	1,050	8,050	191
17	Dyeing and cleaning	4	4,500	63,175	3,500
18	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	13	20,400	2,543,748	18,813
19	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	14	16,485	77,865	4,201
20	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	3	5,050	35,502	1,046
21	Lock and gun smithing.....	6	9,825	16,320	1,005
22	Lumber and other mill products from logs or bolts	4	16,500	584,764	10,450
23	Lumber, planing mill products, including sash, doors, and blinds. (See also Wood, turned and carved.)	5	97,465	243,800	15,730
24	Marble and stone work. (See also Monuments and tombstones.)	6	7,415	60,433	1,285
25	Masonry, brick and stone. (See also Plastering and stuccowork.)	27	6,450	23,385	10,730
26	Millinery, custom work	15	55,600	29,210	3,983
27	Oilecloth, floor	4		580,000	37,073
28	Painting and paper hanging	53	98,555	84,050	9,234
29	Patent medicines and compounds	5	7,850	72,335	6,032
30	Paving and paving materials	3	4,050	16,875	774
31	Photography	6	22,200	15,500	1,982
32	Plastering and stuccowork. (See also Masonry, brick and stone.)	10	3,600	25,355	1,634
33	Plumbing and gas fitting	12	17,225	77,695	2,052
34	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	5	10,635	20,150	1,113
35	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	16	102,000	241,863	26,247
36	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	8	24,885	173,230	22,285
37	Saddlery and harness	6	10,350	37,331	1,303
38	Shipbuilding	11	208,000	1,209,445	36,510
39	Slaughtering and meat packing, wholesale. (See also Sausage; Slaughtering, wholesale, not including meat packing.)	4	5,820	111,800	3,825
40	Tinsmithing, coppersmithing and sheet-iron working. (See also Roofing and roofing materials.)	12	15,050	94,140	2,725
41	Tobacco, cigars and cigarettes	24	63,815	33,380	14,085
42	Watch, clock, and jewelry repairing	11	22,650	43,425	2,373
43	Woollen goods	4	18,333	634,002	72,481
44	Worsted goods	4	45,000	1,030,271	82,956
45	All other industries (a)	85	573,085	5,886,770	224,990

a Embraces agricultural implements, 1; awnings, tents, and sails, 1; bags, paper, 2; bookbinding and blank-book making, 1; boxes, cigar, 1; brass, 1; brass castings and brass finishing, 2; brick and tile, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by steam railroad companies, 2; chemicals, 1; clay and pottery products, 1; clothing, horse, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; cork, cutting, 1; dentistry, mechanical, 2; dyeing and finishing textiles, 2; dye stuffs and extracts, 2; electrical apparatus and supplies, 1; electroplating, 1; fertilizers, 2; files, 1; flouring and yeast mill products, 1; fruits and vegetables, canning and preserving, 2; gas, illuminating and heating, 1; glass, 1; gold and silver, leaf and foil, 1; grease and tallow, 1;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CAMDEN, N. J.

AVERAGE NUMBER OF EMPLOYÉS, AND TOTAL WAGES.								Cost of materials used	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
10,362	\$5,557,580	918	\$798,398	7,338	\$3,938,200	2,106	\$820,982	\$11,810,151	\$21,145,637 1		
6	2,382	3	1,436	1	346	2	600	2,521	6,854 2		
90	58,953	25	10,154	65	39,799	.....	.....	30,556	111,033 3
100	52,877	47	28,559	38	18,486	15	5,832	30,467	107,147 4		
585	284,146	55	44,803	260	116,648	264	122,695	503,927	981,652 5		
17	11,804	2	1,456	15	10,348	.....	.....	26,374	50,705 6
169	81,278	52	31,998	115	48,280	2	1,000	109,008	348,877 7		
19	7,806	5	3,350	4	1,062	10	3,484	6,888	16,590 8		
628	477,965	56	48,059	572	429,906	.....	.....	840,723	1,493,441 9
15	6,626	5	2,548	10	4,078	.....	.....	5,162	16,045 10
150	103,576	13	16,084	137	87,492	.....	.....	70,756	223,213 11
74	35,781	11	7,720	23	10,354	40	17,707	41,226	91,066 12		
69	20,986	10	4,364	50	16,622	.....	.....	10,588	49,650 13
20	14,522	6	5,290	11	9,232	.....	.....	21,975	46,710 14
64	31,804	19	13,336	45	18,528	.....	.....	56,600	122,943 15
13	7,032	3	1,840	10	5,192	.....	.....	4,800	14,610 16
104	36,934	2	1,750	50	24,368	52	10,816	55,730	110,200 17		
1,068	613,172	35	42,163	998	545,711	35	25,298	875,420	1,948,250 18		
64	35,548	12	8,478	32	16,300	20	10,770	47,148	101,643 19		
23	13,870	5	3,600	18	10,276	.....	.....	23,902	47,001 20
9	5,644	7	4,404	2	1,240	.....	.....	3,450	12,600 21
80	37,406	11	8,038	69	29,308	.....	.....	247,141	343,032 22
157	103,342	14	16,544	143	86,798	.....	.....	332,245	509,000 23
42	28,882	7	5,600	35	23,282	.....	.....	25,531	63,075 24
375	291,430	31	26,150	344	265,280	.....	.....	370,324	852,711 25
43	15,056	8	3,944	35	11,112	.....	.....	27,096	50,746 26
318	106,278	17	27,000	143	71,588	158	97,600	586,605	973,500 27		
313	237,747	64	49,696	244	184,179	5	3,872	211,478	525,612 28		
17	7,680	7	4,084	10	3,605	.....	.....	26,488	47,350 29
131	84,525	4	3,900	127	80,625	.....	.....	101,249	213,354 30
11	6,032	6	3,224	5	2,808	.....	.....	3,510	15,040 31
80	72,800	10	8,823	67	61,118	3	2,868	59,558	148,901 32		
104	70,412	14	13,222	90	66,190	.....	.....	120,875	237,802 33
25	11,566	6	4,200	17	6,058	2	1,248	6,706	24,030 34		
180	106,687	28	25,748	131	69,214	21	11,725	46,412	292,652 35		
145	102,616	20	20,136	125	82,480	.....	.....	205,280	358,402 36
34	22,308	7	5,528	27	16,780	.....	.....	25,825	57,050 37
380	333,743	15	20,445	349	297,074	10	16,224	727,011	1,177,222 38		
43	26,340	6	4,500	37	21,840	.....	.....	259,781	330,740 39
72	53,099	12	8,928	60	44,771	.....	.....	64,461	147,303 40
93	49,407	26	17,710	24	8,788	43	22,900	38,594	113,601 41		
17	12,140	12	8,820	5	3,320	.....	.....	9,906	28,234 42
418	106,433	8	7,000	347	146,881	63	12,552	449,616	743,360 43		
783	222,302	9	7,260	736	194,262	38	20,780	1,154,402	1,608,662 44		
3,214	1,386,875	203	207,347	1,004	746,517	1,317	433,011	3,751,912	6,371,053 45		

hairwork, 1; hand knit goods, 1; hardware, 2; hats and caps, not including wool hats, 1; hosiery and knit goods, 1; ink, printing, 1; instruments, professional and scientific, 1; kindling wood, 1; leather, morocco, 1; lime and cement, 2; looking glass and picture frames, 1; mantels, slate, marble, and marbleized, 1; matches, 1; mattresses and spring beds, 1; millinery and lace goods, 1; mineral and soda waters, 2; models and patterns, 2; monuments and tombstones, 2; paper, 2; paper goods, not elsewhere specified, 2; pens, steel, 1; pickles, preserves, and sauces, 2; pumps, not including steam pumps, 1; sausage, 1; surgical appliances, 1; taxidermy, 1; trunks and valises, 2; upholstery materials, 2; wood, turned and carved, 1.

TABLE 2.—MANUFACTURES IN 163 CITIES HAVING A POPULATION
CANTON, OHIO.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	420	\$437,150	\$11,387,406	\$952,010
2	Agricultural implements	10	4,250	4,721,601	202,918
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	21	12,740	24,183	2,031
4	Boots and shoes, custom work and repairing	15	8,070	7,541	870
5	Bottling. (See also Liquors, malt; Mineral and soda waters.)	5	2,746	6,747	2,018
6	Bread and other bakery products	11	33,185	34,502	4,847
7	Brick and tile. (See also Clay and pottery products.)	9	48,940	200,200	14,480
8	Carpentering	57	3,610	128,005	159,568
9	Carpets, rug	3	2,500	4,125	394
10	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	6	520	112,787	1,709
11	Clothing, men's, custom work and repairing	14	42,450	31,205	4,433
12	Clothing, women's, dress-making	27	20,730	16,079	2,143
13	Confectionery	5	16,525	25,020	1,770
14	Dentistry mechanical	8	10,910	10,450	1,266
15	Flouring and grist mill products	5	3,000	144,725	9,717
16	Foundry and machine shop products. (See also Steam fittings and heating apparatus.)	9	9,750	360,500	17,124
17	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, chairs; Furniture, factory product; Mattresses and spring beds.)	4	4,190	7,200	425
18	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts.)	6	800	212,822	7,319
19	Masonry, brick and stone. (See also Plastering and stuccowork.)	24	825	31,382	4,334
20	Millinery, custom work	8	31,150	15,811	3,361
21	Mineral and soda waters. (See also Bottling.)	3	800	9,500	1,237
22	Painting and paper hanging	30	14,570	23,829	2,304
23	Photography	7	14,860	10,825	2,123
24	Plastering and stuccowork. (See also Masonry, brick and stone.)	14	175	12,874	1,598
25	Plumbing and gas fitting	5	20,450	27,876	2,244
26	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	3	4,000	21,675	754
27	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	6	15,800	88,250	10,762
28	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	9	8,200	361,717	17,684
29	Saddlery and harness	6	9,250	164,975	6,774
30	Tinsmithing, coppersmithing, and sheet iron-working. (See also Roofing and roofing materials.)	7	9,000	39,895	1,857
31	Tobacco, cigars and cigarettes	20	15,600	19,906	8,416
32	Watch, clock, and jewelry repairing	4	6,750	1,780	600
33	All other industries (o)	59	60,410	4,500,203	356,020

a Embraces baking and yeast powders, 1; bookbinding and blank-book making, 1; boots and shoes, factory product, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; bridges, 1; brooms and brushes, 2; carriage and wagon materials, 2; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; clay and pottery products, 2; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; cutlery and edge tools, 2; dyeing and cleaning, 2; electroplating, 1; engraving, wood, 1; fertilizers, 1; furniture, chairs, 2; furniture, factory product, 2; gas, illuminating and heating, 1; glass, 1; hairwork, 1; hardware, 1; hardware, saddlery, 1; iron and steel, 1; lamps and reflectors, 1.

CHARLESTON, S. C.

1	All industries	566	\$996,537	7,345,459	464,172
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	20	18,844	25,700	2,656
3	Boots and shoes, custom work and repairing	37	48,889	23,832	6,043
4	Bread and other bakery products	28	51,089	365,233	15,455
5	Carpentering	57	50,944	282,233	18,789
6	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	10	17,578	28,185	3,904
7	Clothing, men's, custom work and repairing	32	46,044	92,904	7,583
8	Clothing, men's, factory product	5	25,215	61,095	2,996
9	Clothing, women's, dressmaking	111	124,811	43,182	14,911
10	Coffins and burial cases, trimming and finishing	3	1,900	14,115	730
11	Confectionery	7	25,750	24,511	2,833

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CANTON, OHIO.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.											
Aggregates		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.	Number	Value
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
7,063	\$3,780,753	693	\$672,112	4,722	\$2,298,717	1,638	\$909,924	\$4,948,503	\$11,881,610	1	
1,005	555,905	110	128,860	507	232,325	388	194,780	630,963	2,052,896	2	
41	23,451	21	13,606	19	9,325	1	520	10,062	38,871	3	
25	9,444	12	5,568	1	520	12	3,356	6,816	20,542	4	
11	6,578	4	3,224	7	3,354			16,162	20,371	5	
55	27,872	25	12,820	30	15,043			56,597	112,370	6	
200	60,280	12	9,173	181	67,747	7	3,360	33,410	167,045	7	
297	176,326	53	37,668	244	158,758			327,961	712,386	8	
9	2,745	2	675	2	320	5	1,759	2,945	8,819	9	
64	27,343	2	2,224	58	23,914	4	1,175	49,117	89,325	10	
101	51,971	12	8,606	24	9,613	65	33,752	66,825	140,294	11	
78	15,634	19	5,776	59	9,858			18,351	41,141	12	
16	6,056	6	2,712	10	3,344			21,146	31,500	13	
10	3,710	7	2,708	3	912			3,125	10,900	14	
34	18,847	2	1,665	24	13,022	8	4,160	323,368	388,206	15	
280	174,377	25	17,991	199	107,150	56	19,236	175,279	493,350	16	
5	3,246	3	1,400	2	1,846			5,817	12,564	17	
91	53,566	14	14,275	77	39,291			124,635	231,460	18	
233	135,270	22	14,715	211	120,555			117,691	280,415	19	
38	11,906	9	4,094	29	7,872			32,962	56,202	20	
12	4,856	4	1,890	8	2,906			3,061	12,544	21	
91	45,030	30	15,505	56	26,075	5	3,450	32,487	91,246	22	
18	8,027	8	4,004	10	4,623			5,435	22,247	23	
68	34,425	11	6,515	57	27,910			28,168	76,650	24	
80	40,318	12	3,426	68	30,892			61,030	118,500	25	
16	7,804	4	3,900	12	3,904			10,741	23,065	26	
112	56,914	17	10,761	86	40,300	9	4,860	32,007	144,410	27	
129	73,315	30	24,200	99	49,115			302,358	530,504	28	
156	70,580	10	8,375	56	18,705	90	43,500	113,215	225,225	29	
31	16,814	8	5,358	23	11,456			16,055	42,850	30	
60	22,171	17	6,268	9	1,237	34	14,666	20,497	55,632	31	
5	3,030	5	3,030	5	3,030			700	8,631	32	
3,682	2,018,722	182	188,148	2,546	1,274,215	954	551,359	2,246,772	5,662,052	33	

1; lime and cement, 1; liquors, malt, 2; lock and gunsmithing, 1; looking-glass and picture frames, 1; lumber and other mill products from logs or bolts, 1; mattresses and spring beds, 1; models and patterns, 1; monuments and tombstones, 2; patent medicines and compounds, 1; safes and vaults, 1; sausage, 1; saws, 1; shirts, 1; soap and candles, 1; springs, steel, car and carriage, 1; steam fittings and heating apparatus, 1; watch cases, 1; watches, 1; wirework, including wire rope and cable, 2; woodenware, not elsewhere specified, 1; woolen goods, 1.

CHARLESTON, S. C.

5,504	2,326,078	820	546,280	4,224	1,610,315	460	169,474	4,753,306	9,065,421	1
58	25,394	10	12,630	35	12,055	1	700	13,976	45,130	2
57	21,740	34	15,974	12	2,224	11	3,542	17,730	48,811	3
226	37,807	54	33,844	172	63,963			260,603	467,944	4
515	260,660	56	35,908	458	224,597	1	125	600,885	980,504	5
71	34,032	9	7,712	61	25,744	1	576	20,625	67,908	6
156	76,984	36	22,880	42	14,517	78	39,587	57,771	176,599	7
30	38,644	15	14,674	4	2,720	71	20,650	42,100	161,200	8
258	54,971	103	33,985	111	17,649	44	3,237	14,778	100,302	9
6	2,874	3	1,824	3	1,050			6,950	14,800	10
31	7,646	8	3,010	23	4,636			17,013	48,485	11

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHARLESTON, S. C.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
12	Cooperage	6	\$20,320	\$286,100	\$13,147
13	Cotton, compressing	4	.....	1,187,000	29,150
14	Dentistry, mechanical	3	3,200	2,370	358
15	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	11	26,600	28,940	3,055
16	Flouring and grist mill products	7	30,530	188,095	5,947
17	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	4	.....	357,860	9,517
18	Furnishing goods, men's	8	9,050	16,255	1,270
19	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	10	12,856	11,250	1,771
20	Lock and gunsmithing	7	12,000	25,850	1,801
21	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	10	19,670	208,756	11,928
22	Masonry, brick and stone	17	15,878	181,584	6,701
23	Mattresses and spring beds. (See also Furniture.)	5	8,167	13,001	2,244
24	Millinery, custom work	11	36,711	27,845	4,387
25	Mineral and soda waters	4	9,667	11,500	1,545
26	Monuments and tombstones	5	2,167	39,850	837
27	Painting and paper hanging	8	10,807	17,015	1,920
28	Photography	4	23,111	30,810	2,801
29	Plumbing and gas fitting	14	26,600	27,802	3,718
30	Printing and publishing, book and job	5	18,475	241,900	24,256
31	Printing and publishing, newspapers and periodicals	4	14,260	129,600	38,930
32	Rice, cleaning and polishing	4	.....	204,700	20,350
33	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	4	11,200	25,034	1,507
34	Saddlery and harness	7	22,700	37,803	5,209
35	Shipbuilding	7	11,440	127,720	11,530
36	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	18	31,056	80,730	5,301
37	Tobacco, cigars and cigarettes	5	15,167	8,655	5,295
38	Watch, clock, and jewelry repairing	18	50,878	44,122	7,184
39	All other industries (a)	46	137,713	2,761,583	160,283

a Embraces awnings, tents, and sails, 2; bagging, flax, hemp, and jute, 1; bags, other than paper, 2; baskets and rattan and willow ware, 1; boot and shoe uppers, 1; boxes, wooden packing, 2; brick and tile, 2; cars and general shop construction and repairs by steam railroad companies, 2; chemicals, 1; clay and pottery products, 1; cotton, cleaning and rehandling, 1; cotton goods, 1; cotton ties, 2; dyeing and cleaning, 2; fertilizers, 2; flags and banners, 1; food preparations, 1; gas, illuminating

CHATTANOOGA, TENN.

1	All industries	294	579,305	7,105,646	909,518
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	13	17,110	4,120	1,937
3	Boots and shoes, custom work and repairing	20	18,900	7,601	2,173
4	Bread and other bakery products	7	26,050	39,740	6,014
5	Brick and tile	6	40,890	163,889	13,001
6	Carpentering	19	11,080	178,042	279,927
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	4	12,430	20,700	2,437
8	Clothing, men's, custom work and repairing	10	34,510	32,340	4,336
9	Clothing, women's, dressmaking	28	25,980	25,480	4,280
10	Dentistry, mechanical	4	4,750	1,700	602
11	Dyeing and cleaning	4	5,110	9,712	972
12	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	14	26,210	868,513	54,034
13	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	8	11,670	7,210	1,379
14	Furniture, factory product	3	.....	396,642	28,332
15	Iron and steel	5	.....	1,061,656	95,355
16	Lock and gunsmithing	4	5,000	2,105	501
17	Lumber and other mill products from logs or bolts	8	9,200	1,101,900	50,050
18	Lumber, planing mill products, including sash, doors, and blinds. (See also Wood, turned and carved.)	8	18,100	742,554	40,050
19	Marble and stone work	6	6,460	123,502	10,782
20	Masonry, brick and stone. (See also Plastering and stuccowork.)	13	22,150	156,724	120,270
21	Mattresses and spring beds. (See also Furniture.)	4	16,500	18,946	2,558

MANUFACTURES.

765

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHARLESTON, S. C.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.	
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.			
314	\$126,260	0	\$8,405	295	\$115,300	13	\$2,504	\$279,875	\$425,125	12
155	51,600	20	18,200	135	33,400	.....	.....	11,165	124,000	13
4	860	1	280	3	580	.....	.....	530	2,000	14
23	8,764	17	7,844	6	920	.....	.....	19,825	44,488	15
69	32,144	24	17,176	45	14,968	.....	.....	342,951	389,914	16
227	139,788	13	18,080	211	121,208	3	500	162,020	365,200	17
35	7,335	9	1,910	3	425	23	5,000	15,695	32,470	18
27	10,315	10	4,960	13	5,030	4	325	13,298	26,475	19
18	8,780	10	5,410	8	3,370	.....	.....	7,487	26,660	20
221	89,591	22	18,294	190	71,297	.....	.....	249,871	444,833	21
144	79,991	15	9,859	129	70,132	.....	.....	277,150	426,075	22
51	15,835	8	3,404	25	8,926	18	4,105	10,083	34,705	23
43	11,863	23	7,893	20	3,970	.....	.....	12,290	46,956	24
13	5,204	5	2,224	8	2,980	.....	.....	13,705	28,100	25
41	33,597	6	5,072	31	26,725	4	1,200	16,790	77,550	26
51	26,071	11	7,055	33	16,880	7	2,136	17,380	51,215	27
10	8,889	5	4,489	11	4,400	.....	.....	6,585	22,520	28
42	20,855	13	8,330	29	12,525	.....	.....	27,690	54,825	29
143	81,748	40	31,200	103	50,648	.....	.....	96,250	242,985	30
129	90,966	16	13,988	77	45,978	36	37,000	23,340	206,100	31
99	37,710	11	11,210	88	26,500	.....	.....	27,500	120,056	32
26	14,750	4	3,900	22	10,850	.....	.....	15,865	34,357	33
36	19,756	15	9,639	7	3,612	14	6,505	34,440	75,500	34
82	46,786	6	5,860	71	40,566	5	370	40,452	185,280	35
70	41,552	22	13,982	56	27,470	1	100	44,826	108,160	36
23	10,640	6	2,853	1	560	16	7,236	8,834	27,100	37
48	41,620	29	26,360	17	14,184	2	1,076	1,076	14,542	73,105
1,877	636,698	116	65,212	1,057	508,526	104	32,900	1,854,526	3,192,034	39

and heating, 1; grease and tallow, 1; hairwork, 2; hand stamps, 1; ice, artificial, 1; ironwork, architectural and ornamental, 2; liquors, malt, 1; looking-glass and picture frames, 1; lumber and other mill products from logs or bolts, 1; musical instruments, organs and materials, 1; patent medicines and compounds, 2; sausage, 1; soap and candles, 1; trunks and valises, 1; umbrellas and canes, 2; vinegar and cider, 1; wood, turned and carved, 1.

CHATTANOOGA, TENN.

5,741	2,740,887	541	500,364	4,924	2,141,000	276	105,523	4,937,902	10,216,109	1
35	17,465	16	8,374	19	9,091	.....	.....	6,978	29,190	2
43	16,702	30	11,119	27	13,164	13	5,583	10,797	31,727	3
45	24,496	18	11,332	211	45,598	15	2,000	43,072	86,099	4
238	58,358	12	10,700	239	133,030	4	1,800	351,239	125,607	5
269	163,835	26	28,999	.....	.....	.....	.....	835,782	6	
45	21,293	6	3,552	36	16,421	3	1,320	20,927	50,880	7
80	47,300	13	11,409	23	11,258	44	24,644	55,580	122,545	8
134	40,906	28	11,502	106	20,404	.....	.....	18,146	71,952	9
5	2,559	5	2,559	.....	.....	.....	.....	839	4,000	10
12	4,900	5	3,100	7	1,800	.....	.....	1,003	7,505	11
927	300,908	36	41,149	551	243,660	40	16,099	574,668	1,004,811	12
18	12,582	10	6,593	8	5,980	.....	.....	8,050	25,421	13
264	113,180	13	17,020	241	91,840	10	4,320	137,870	339,375	14
543	262,548	25	31,330	518	231,218	.....	.....	776,314	1,241,262	15
7	3,784	5	2,978	2	806	.....	.....	1,120	7,200	16
414	167,476	24	22,988	380	142,764	10	1,724	448,829	817,003	17
302	193,012	35	30,575	357	166,437	.....	.....	457,005	821,802	18
139	73,840	11	12,775	128	61,065	.....	.....	129,894	234,280	19
437	245,307	21	27,050	416	218,257	.....	.....	366,099	797,378	20
38	16,950	5	3,300	33	13,650	.....	.....	59,430	96,977	21

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHATTANOOGA, TENN.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
		Value of hired prop- erty.	Direct investment.	
22 Millinery, custom work.....	4	\$11,450	\$31,610	\$2,502
23 Painting and paper hanging.....	13	17,960	25,995	3,899
24 Photography.....	5	10,380	8,550	2,507
25 Plastering and stuccowork. (See also Masonry, brick and stone.)	4	4,350	10,175	1,955
26 Plumbing and gas fitting.....	5	34,790	99,418	7,377
27 Printing and publishing, newspapers and periodicals. (See also Printing and publishing, book and job.)	6	14,900	162,885	39,752
28 Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	4	8,560	16,385	1,754
29 Saddlery and harness.....	3	12,185	25,320	1,960
30 Tinsmithing, coppersmithing, and sheet iron working. (See also Roofing and roofing materials.)	7	33,810	47,550	5,768
31 Watch, clock, and jewelry repairing.....	9	22,750	10,295	2,756
32 All other industries (a).....	37	95,170	2,014,379	169,333

^a Embraces agricultural implements, 1; baking and yeast powders, 2; bottling, 1; brass castings and brass finishing, 1; bridges, 1; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; clothing, men's, factory product, 1; druggists' preparations, not including prescriptions, 1; electrical apparatus and supplies, 1; electroplating, 1; flouring and grist mill products, 1; fruits and vegetables, canning

CHELSEA, MASS.

1	All industries	347	1,948,968	7,028,356	547,110
2	Baskets and raffia and willow ware.....	5	11,190	4,995	1,079
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	15	25,225	19,255	2,523
4	Boots and shoes, custom work and repairing	32	32,775	8,737	3,051
5	Bread and other bakery products.....	16	89,450	40,850	10,066
6	Carpentering	20	22,740	32,505	7,034
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	4	6,625	10,375	1,037
8	Clothing, men's, custom work and repairing	13	35,358	10,736	3,408
9	Clothing, men's, factory product	8	12,525	8,160	1,577
10	Clothing, women's, dressmaking	52	88,100	7,562	7,965
11	Confectionery	4	11,475	41,975	1,522
12	Dentistry, mechanical.....	4	9,890	1,775	906
13	Founding and machine shop products	5	27,100	711,460	36,328
14	Furniture, cabinetwork, repairing and upholstering. (See also Furniture, chairs; Furniture, factory product; Mattresses and spring beds.)	7	17,480	2,665	1,455
15	Grease and tallow. (See also Soap and candles.)	4	22,810	40,797	3,225
16	Leather, tanned and curried.....	3	.....	29,800	1,285
17	Looking-glass and picture frames.....	3	11,350	1,435	1,103
18	Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts.)	3	22,100	39,200	4,956
19	Masonry, brick and stone. (See also Plastering and stuccowork.)	6	3,275	7,915	710
20	Millinery, custom work.....	9	44,210	10,745	3,636
21	Painting and paper hanging.....	21	36,910	12,750	3,246
22	Plastering and stuccowork. (See also Masonry, brick and stone.)	3	3,100	1,290	263
23	Plumbing and gas fitting.....	14	38,750	20,014	3,948
24	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	6	14,250	9,540	1,450
25	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	4	13,625	7,683	3,278
26	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	7	13,525	40,650	2,131
27	Rubber and elastic goods.....	8	156,460	2,553,354	212,749
28	Saddlery and harness.....	3	8,140	3,917	776
29	Soap and candles. (See also Grease and tallow.)	4	3,525	7,000	570
30	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	3	13,100	11,225	1,163
31	Tobacco, cigars and cigarettes	10	17,225	17,475	6,756
32	Varnish. (See also Paints.)	3	.....	26,000	1,772
33	Watch, clock, and jewelry repairing.....	3	8,150	2,750	678
34	All other industries (a).....	45	228,500	3,278,426	215,598

^a Embraces baking and yeast powders, 1; belting and hose, rubber, 2; bluing, 1; bookbinding and blank-book making, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; carriage and wagon materials, 1; clay and pottery products, 2; cordage and twine, 1; cutlery and edge tools, 1; dyeing and cleaning, 2; dyeing and finishing textiles, 1; fertilizers, 1; furnishing goods, men's, 2; furniture, chairs, 1; furniture, factory

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHATTANOOGA, TENN.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.	
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.			
38	\$16,800	15	\$6,512	23	\$10,387	8	\$4,300	\$35,991	\$62,450	22
83	59,400	14	13,485	61	41,615	8	\$4,300	46,561	124,725	23
17	9,375	9	6,174	8	3,261	2	1,250	4,773	19,010	24
45	27,832	5	5,000	38	21,582	2	1,250	23,639	59,500	25
112	47,030	14	10,519	98	36,511	87,178	166,160	26		
186	103,622	30	24,086	139	69,234	17	10,302	62,536	241,853	27
28	16,471	5	3,893	23	12,578	8	5,000	59,902	39,162	28
29	24,212	9	5,660	12	6,952	8	11,600	30,026	73,009	29
78	42,868	10	10,037	68	32,831	8	7,203	71,203	153,187	30
18	14,971	9	6,020	9	8,951	102	20,581	4,049	24,650	31
1,322	596,800	77	104,514	1,143	471,705	1,022	1,030,861	2,366,234	32	

and preserving, 1; gas, illuminating and heating, 1; hairwork, 1; ice, artificial, 2; ironwork, architectural and ornamental, 1; leather, tanned and curried, 1; lime and cement, 1; liquors, malt, 1; mantels, slate, marble, and marbleized, 1; mineral and soda waters, 1; paints, 2; paving and paving materials, 1; printing and publishing, book and job, 1; sausage, 1; saws, 1; shirts, 1; tobacco, cigars and cigarettes, 2; trunks and valises, 2; wood, turned and carved, 1.

CHELSEA, MASS.

3,470	1,884,062	493	409,057	2,258	1,116,752	719	268,193	4,681,291	6,158,297	1
33	14,730	6	3,640	27	11,660	8	5,378	31,529	2	
34	25,639	15	14,921	19	10,718	8	18,475	48,193	3	
45	25,640	27	16,950	16	7,690	2	1,000	19,470	39,725	4
97	59,580	39	25,966	58	33,414	8	133,410	233,554	5	
125	93,059	21	24,135	104	68,924	8	90,704	226,290	6	
14	11,196	5	4,540	9	6,656	8	7,235	23,601	7	
30	18,234	8	4,925	17	7,653	14	6,256	17,520	46,173	8
147	43,480	9	9,950	37	10,980	101	22,550	9,948	63,003	9
140	58,191	52	35,869	88	22,322	8	6,457	81,743	10	
16	9,498	4	4,300	12	5,198	8	13,609	31,804	11	
7	4,500	4	3,200	3	1,300	8	1,972	8,250	12	
341	217,999	18	30,830	148	100,478	175	86,691	135,120	472,360	13
15	8,917	6	4,739	8	3,878	1	300	5,897	19,200	14
25	15,724	6	5,628	19	10,666	8	88,266	124,823	15	
22	14,943	4	3,700	18	11,243	8	63,450	86,060	16	
9	6,000	3	3,020	6	9,036	8	7,487	15,080	17	
61	38,450	1	2,000	60	36,450	8	59,440	123,500	18	
23	17,344	3	3,020	20	14,324	8	12,818	35,300	19	
25	12,000	8	6,100	17	5,900	8	14,117	48,300	20	
73	57,178	23	21,440	45	30,532	5	5,200	23,493	97,245	21
7	6,441	2	2,400	5	4,041	8	2,145	10,600	22	
51	38,466	16	15,249	35	23,217	8	26,844	84,235	23	
18	10,351	7	6,320	11	4,031	8	4,323	21,000	24	
17	9,480	2	2,010	15	7,470	8	3,179	17,403	25	
33	25,241	7	7,486	26	17,755	8	60,938	111,072	26	
945	482,877	94	120,670	639	281,308	212	80,809	1,891,427	2,706,619	27
6	3,881	1	3,333	5	3,548	8	1,567	7,620	28	
10	6,680	4	3,830	6	2,850	8	7,930	17,480	29	
13	10,750	3	3,050	10	7,100	8	4,225	20,890	30	
51	21,040	10	9,040	2	800	30	11,200	22,825	66,263	31
9	6,400	2	6,400	9	6,400	8	30,930	60,250	32	
7	5,156	2	1,750	5	3,406	8	3,447	16,100	33	
1,012	505,071	83	98,030	759	352,854	170	51,187	1,888,265	3,030,527	34

product, 1; furs, dressed, 1; gas, illuminating and heating, 1; kaolin and other earth grinding, 1; lock and gun snuffing, 2; lumber and other mill products from logs or bolts, 1; marble and stone work, 1; mattresses and spring beds, 1; monuments and tombstones, 1; oil, lubricating, 1; paints, 1; paper hangings, 1; patent medicines and compounds, 2; photography, 2; sewing machine repairing, 2; shipbuilding, 1; stamped ware, 1; type founding, 1; window shades, 2.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHESTER, PA.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of billed prop- erty.	Direct investment.	
1	All industries	201	\$496,600	\$0,367,033	\$008,831
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	11	5,450	17,704	756
3	Boots and shoes, custom work and repairing	5	4,000	1,075	472
4	Bottling. (See also Mineral and soda waters.)	4	7,800	10,367	4,103
5	Bread and other bakery products	13	19,000	51,888	5,785
6	Carpentering	10	5,800	149,850	82,454
7	Carpets, rug	3	2,500	6,125	491
8	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	4	2,500	46,597	2,019
9	Clothing, men's, custom work and repairing	9	20,000	16,000	3,649
10	Clothing, women's, dressmaking	18	10,200	2,105	1,247
11	Coffins and burial cases, trimming and finishing	4	500	42,150	913
12	Confectionery	6	19,400	8,035	2,869
13	Cotton goods	11	86,500	3,248,823	151,597
14	Foundry and machine shop products	6	1,950	836,243	37,857
15	Furniture, cabinetmaking, repairing and upholstering	4	3,000	26,075	1,160
16	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts.)	3	6,900	63,089	2,130
17	Masonry, brick and stone. (See also Plastering and stuccowork.)	3	1,100	4,425	657
18	Millinery, custom work	6	9,000	37,190	1,561
19	Painting and paper hanging	7	4,850	36,350	1,840
20	Photography	4	7,000	16,315	1,005
21	Plumbing and gas fitting	9	8,200	50,750	2,709
22	Printing and publishing, newspapers and periodicals	7	25,000	57,211	10,180
23	Saddlery and harness	4	4,200	30,800	699
24	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	6	4,200	53,413	2,152
25	Tobacco, cigars and cigarettes	7	11,000	12,765	3,600
26	Woolen goods	4	37,300	1,002,108	48,878
27	Worsted goods	4	82,450	566,025	60,376
28	All other industries (a)	20	97,200	2,943,456	170,712

a Embraces awnings, tents, and sails, 1; belting and hose, leather, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; brick and tile, 1; chemicals, 1; coffee and spice, roasting and grinding, 1; cutlery and edge tools, 1; dentistry, mechanical, 2; dye stuffs and extracts, 1; gas, illuminating and heating, 1; hats and caps, not including wool

CHICAGO, ILL.

1	All industries	9,977	72,716,486	359,739,508	43,235,427
2	Agricultural implements	6	53,000	28,408,543	2,152,356
3	Artificial feathers and flowers. (See also Millinery and lace goods.)	6	56,000	60,950	5,031
4	Artificial limbs. (See also Surgical appliances.)	4	13,825	4,000	2,230
5	Awnings, tents, and sails	10	182,250	237,503	24,200
6	Axle grease	3	2,000	153,200	11,183
7	Babbitt metal and solder	3	30,075	23,600	2,096
8	Bags, other than paper	4	113,700	280,493	15,395
9	Baking and yeast powders	11	304,750	908,400	301,746
10	Baskets and rattan and willow ware	7	42,860	42,675	4,812
11	Belting and hose, leather	3	127,900	371,100	16,045
12	Bicycles and tricycles	4	201,400	537,100	81,300
13	Billiard tables and materials	5	97,500	747,140	56,736
14	Blacking. (See also Cleansing and polishing preparations.)	3	16,000	15,100	1,088
15	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	478	948,500	1,088,857	111,058
16	Bookbinding and blank-book making. (See also Printing and publishing.)	33	836,500	792,580	91,260
17	Boot and shoe cut stock	7	104,250	113,450	10,834
18	Boot and shoe uppers	6	40,000	28,580	3,723
19	Boots and shoes, custom work and repairing	754	1,516,250	627,729	150,435
20	Boots and shoes, factory product	44	531,700	3,133,289	294,132
21	Bottling. (See also Liquors, malt; Mineral and soda waters.)	12	39,000	50,415	7,628

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHESTER, PA.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										Value of products, including receipts from custom work and repairing.	
Aggregates.		Officers, firm mem- bers, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of ma- terials used.			
Average number.	Total wages.	Num- ber.	Wages.	Number.	Wages.	Num- ber.	Wages.				
6,850	\$3,104,049	291	\$296,708	5,730	\$2,411,689	829	\$395,652	\$6,844,825	\$11,864,899	1	
18	8,325	5	2,322	11	5,753	2	250	4,084	14,415	2	
9	3,447	2	650	5	2,410	2	387	1,800	6,080	3	
14	8,064	4	3,028	9	4,036	1	400	16,343	33,790	4	
35	19,633	6	4,144	28	15,289	1	200	55,240	89,333	5	
138	105,813	11	10,753	127	95,060	.....	.....	238,515	403,835	6
10	4,712	9	4,412	1	300	4,762	11,282	7	.....	.....
44	19,227	8	5,250	30	13,971	.....	.....	16,565	45,287	8
53	25,374	8	5,780	39	17,014	6	2,580	30,495	63,005	9	
54	13,574	17	5,364	36	8,054	1	150	40	19,395	10	
13	7,058	4	3,014	7	3,564	2	480	7,600	23,550	11	
21	10,569	7	4,294	13	6,260	1	75	20,510	36,472	12	
2,369	708,623	32	33,938	2,094	608,952	243	95,713	1,687,231	2,960,224	13	
537	323,935	23	25,922	404	286,733	20	11,280	694,145	1,143,261	14	
16	7,539	4	2,404	10	4,710	2	425	9,165	22,345	15	
41	24,753	5	3,840	36	20,913	.....	.....	47,435	81,700	16
60	44,105	3	3,235	57	40,870	.....	.....	110,100	164,118	17
32	10,510	9	4,038	23	5,572	.....	.....	18,900	39,580	18
47	32,330	6	4,990	41	27,340	.....	.....	18,690	63,420	19
19	4,673	3	1,768	6	2,805	1	100	2,753	11,827	20	
49	28,690	9	7,704	39	20,786	1	200	38,245	79,000	21	
71	40,473	8	9,480	63	30,993	.....	.....	15,689	75,474	22
10	6,455	4	2,930	6	3,525	.....	.....	6,210	15,000	23
32	18,814	4	3,350	26	14,070	2	494	18,831	44,400	24	
26	11,488	6	3,204	19	7,494	1	700	8,950	29,347	25	
639	236,866	16	18,300	458	165,417	165	58,149	496,525	916,401	26	
748	253,857	14	14,384	545	150,397	189	80,076	811,630	1,249,805	27	
1,754	1,035,142	73	111,666	1,493	774,789	188	148,087	2,468,351	4,162,887	28	

Hats, 1; iron and steel, 2; lumber and other mill products from logs or bolts, 2; marble and stone work, 2; mineral and soda waters, 1; monuments and tombstones, 1; plastering and stuccowork, 2; roofing and roofing materials, 2; shipbuilding, 2; shoddy, 1; slaughtering and meat packing, wholesale, 1.

CHICAGO, ILL.

210,366	123,055,001	10,745	10,885,070	165,849	91,504,678	24,772	12,565,244	409,493,027	664,567,023	1
3,945	1,971,300	273	220,414	2,452	1,275,361	1,220	475,534	4,908,877	11,883,976	2
80	40,174	8	9,850	39	14,548	39	15,776	102,290	179,250	3
9	11,576	5	6,180	4	5,306	.....	.....	7,140	25,600	4
281	158,246	31	28,848	210	110,078	40	18,720	415,568	720,622	5
48	40,000	21	26,250	27	14,740	.....	.....	133,800	290,000	6
15	9,578	5	4,586	10	4,992	.....	.....	43,174	69,680	7
130	58,842	15	15,580	115	43,262	.....	.....	671,990	825,006	8
474	265,360	101	122,340	332	131,314	41	11,700	1,706,204	2,767,840	9
93	50,928	8	7,308	73	38,860	12	5,200	42,020	119,550	10
111	73,667	23	23,546	88	50,121	.....	.....	365,340	540,500	11
667	378,792	41	47,520	606	320,803	20	10,400	246,256	820,000	12
559	368,660	51	58,822	508	309,938	.....	.....	673,915	1,296,000	13
40	21,060	14	13,100	26	8,860	.....	.....	29,181	64,500	14
1,396	1,047,466	513	421,555	874	618,611	9	7,300	462,495	2,657,962	15
938	525,373	92	100,232	845	418,621	1	520	535,116	1,463,652	16
115	57,860	12	11,015	103	46,845	.....	.....	579,805	745,224	17
46	25,713	12	8,196	20	9,204	14	8,313	88,177	77,533	18
1,338	707,230	674	363,366	511	202,593	153	81,271	407,667	1,514,604	19
3,439	1,740,095	118	114,985	3,002	1,489,707	319	145,003	3,977,429	7,257,034	20
44	27,024	12	11,744	32	16,180	.....	.....	84,106	157,696	21

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHICAGO, ILL.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
		Value of hired property.	Direct investment.	
22 Boxes, cigar	6	\$60,100	\$128,050	\$13,223
23 Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	19	314,775	500,210	42,140
24 Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	14	186,000	1,336,055	89,105
25 Brass castings and brass finishing. (See also Bronze castings; Plumbers' supplies.)	25	255,700	533,381	47,150
26 Brassware	8	34,550	23,625	3,994
27 Bread and other bakery products	335	1,526,350	2,520,078	354,687
28 Brick and tile. (See also Clay and pottery products.)	68	483,360	3,401,240	173,170
29 Bridges	9	94,000	1,354,000	96,237
30 Brooms and brushes	39	151,000	436,906	26,055
31 Buttons	4	37,300	42,725	2,826
32 Carpentry	500	683,600	3,220,376	170,885
33 Carpets, rag	20	23,550	30,882	2,322
34 Carriage and wagon materials	7	20,275	28,075	2,250
35 Carriages and sleds, children's	5	90,000	308,520	14,690
36 Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	116	739,250	3,719,845	228,876
37 Cars and general shop construction and repairs by steam railroad companies	17	.....	5,398,480	.....
38 Cars and general shop construction and repairs by street railroad companies	3	.....	1,109,500	23,000
39 Cars, steam railroad, not including operations of railroad companies	7	177,700	8,840,330	189,204
40 Cheese and butter, urban dairy product	3	10,700	2,100	1,023
41 Chemicals. (See also Fertilizers; Paints; Varnish.)	29	260,000	1,410,800	80,113
42 Clay and pottery products. (See also Brick and tile.)	8	178,900	886,522	31,531
43 Cleansing and polishing preparations. (See also Blacking.)	4	40,000	43,400	4,301
44 Clothing, men's, custom work and repairing	769	4,986,500	3,389,139	697,647
45 Clothing, men's, factory product	186	6,822,200	12,742,325	2,710,770
46 Clothing, men's, factory product, buttonholes	3	2,550	500	289
47 Clothing, women's, dressmaking	686	1,400,700	897,602	164,900
48 Clothing, women's, factory product	71	1,774,800	2,793,112	600,030
49 Coffee and spice roasting and grinding	12	560,300	1,838,708	185,030
50 Coffins and burial cases, trimming and finishing	62	164,700	278,882	20,171
51 Coffins, burial cases, and undertakers' goods	9	142,000	814,630	73,685
52 Confectionery	47	1,024,700	1,440,993	191,971
53 Cooperage	47	114,800	1,142,094	53,577
54 Cork, cutting	5	100,000	107,850	12,447
55 Corsets	7	76,550	91,260	6,741
56 Cutlery and edge tools. (See also Hardware; Saws; Tools, not elsewhere specified.)	6	9,000	221,230	6,401
57 Dentistry, mechanical	266	1,219,550	324,225	147,128
58 Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.)	65	220,200	323,038	26,868
59 Dyeing and cleaning	28	151,500	142,267	22,408
60 Dyeing and finishing textiles	3	13,000	26,500	1,426
61 Electrical apparatus and supplies	9	200,000	375,400	35,026
62 Electroplating	16	65,600	142,445	14,947
63 Engravers' materials	3	20,000	32,200	2,628
64 Engraving and dieinking	21	207,350	105,388	21,415
65 Engraving, steel, including plate printing. (See also Lithographing and engraving; Photolithographing and engraving.)	6	42,300	20,298	4,819
66 Engraving, wood	18	121,750	37,443	15,879
67 Envelopes	3	32,500	46,900	4,298
68 Fancy articles, not elsewhere specified	16	57,650	40,615	6,581
69 Fertilizers. (See also Chemicals.)	3	42,500	906,044	52,620
70 Fire extinguishers, chemical	3	17,000	81,100	2,218
71 Flavoring extracts	5	67,000	93,700	12,283
72 Flouring and grist mill products	16	18,650	1,880,238	101,191
73 Food preparations. (See also Fruits and vegetables, canning and preserving.)	20	190,000	348,270	64,816
74 Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	213	2,492,000	22,410,275	1,884,882
75 Fur goods. (See also Hats and caps, not including wool hats.)	31	876,400	607,610	81,208
76 Furnishing goods, men's. (See also Shirts.)	22	684,150	854,084	104,701
77 Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	101	389,750	760,526	66,273
78 Furniture, chairs	8	130,000	527,103	52,070
79 Furniture, factory product	149	2,811,518	7,567,730	529,163
80 Galvanizing	3	57,000	173,500	5,952
81 Gas and lamp fixtures. (See also Lamps and reflectors.)	5	170,000	605,002	28,570

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHICAGO, ILL.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.	
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.				
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.			
204	\$93,018	13	\$16,400	123	\$52,278	68	\$24,340	\$116,541	\$270,100	22
1,048	349,894	46	45,161	522	162,783	480	141,040	420,940	940,668	23
1,321	705,136	52	61,610	1,226	617,612	43	25,914	1,590,980	2,835,830	24
595	384,475	64	77,410	521	298,184	10	8,572	707,425	1,409,023	25
63	31,358	15	9,730	46	21,108	2	520	32,707	78,052	26
2,665	1,625,819	490	387,713	2,129	1,120,790	37	17,316	3,852,951	6,816,788	27
3,156	1,236,878	86	74,945	2,643	983,068	527	198,805	365,283	2,231,816	28
884	623,270	39	58,040	845	565,230			1,874,150	2,823,537	29
504	244,715	50	50,474	230	90,025	215	103,016	360,956	713,424	30
57	21,508	9	9,805	48	11,763			0,150	46,860	31
6,223	4,653,561	619	597,067	5,446	3,896,674	158	159,820	6,335,605	12,751,068	32
62	26,150	18	8,520	6	3,094	38	14,530	15,634	53,949	33
59	37,632	15	9,956	21	14,560	23	13,116	32,581	84,950	34
458	206,800	22	16,500	376	170,300	60	20,000	290,200	594,100	35
2,178	1,459,864	172	202,972	1,876	1,174,474	130	82,418	1,480,419	3,971,036	36
6,082	3,605,602	153	120,750	5,920	3,471,940	9	12,972	3,227,361	6,964,351	37
365	251,604	2	4,500	363	247,104			238,511	594,854	38
5,878	3,839,495	164	111,252	3,418	2,262,825	2,296	1,405,418	8,500,147	14,517,719	39
7	3,284			7	3,284			12,292	21,115	40
379	254,000	100	99,400	270	155,191			685,756	1,280,357	41
402	220,970	11	22,290	386	190,340	5	2,340	130,214	438,009	42
41	24,586	10	11,290	31	13,206			32,517	82,975	43
6,352	3,874,947	906	868,482	2,597	1,483,235	2,789	1,523,230	4,344,080	11,002,810	44
15,616	6,274,482	567	606,296	12,735	4,090,310	2,314	968,876	17,500,884	32,517,226	45
14	5,292	3	1,540	11	3,692			737	8,220	46
2,469	1,005,805	738	396,282	1,567	534,442	104	75,081	1,807,828	3,574,164	47
2,073	1,181,478	160	167,805	2,070	835,874	443	177,799	3,257,712	6,422,481	48
480	297,788	152	145,637	281	130,610	53	12,532	7,000,028	9,004,596	49
127	80,371	60	50,208	58	30,103			157,805	339,032	50
390	220,092	38	44,026	351	170,866	10	5,200	267,123	748,300	51
1,463	606,946	105	140,664	1,291	463,734	7	2,548	2,391,051	3,780,160	52
1,208	649,744	60	50,898	734	375,380	414	217,507	1,287,739	2,822,180	53
95	40,806	12	17,108	83	32,788			117,363	205,400	54
209	78,922	25	21,100	183	57,072	1	150	88,495	243,987	55
225	95,654	11	11,062	209	80,092	5	3,000	74,808	215,584	56
542	524,758	280	385,568	258	135,030	4	4,160	160,871	1,285,947	57
137	76,193	59	43,272	78	32,921			109,209	291,041	58
174	85,931	43	20,948	128	54,135	3	1,848	130,044	275,052	59
21	10,424	5	2,532	16	7,892			6,846	26,741	60
288	177,200	35	38,420	228	123,180	20	15,600	161,325	439,850	61
175	93,369	23	20,563	151	72,182	1	024	38,554	177,951	62
30	18,888	6	5,248	24	15,040			20,157	40,500	63
230	172,543	34	37,744	175	115,799	21	19,000	50,728	290,925	64
63	46,123	11	14,504	52	31,610			8,060	75,120	65
160	140,582	33	30,904	133	98,514	3	2,164	14,782	218,975	66
100	42,066	7	9,100	93	33,566			33,410	91,500	67
76	32,804	23	13,145	26	10,883	27	8,796	42,884	115,080	68
275	198,598	20	56,939	240	141,059			294,395	900,758	69
15	11,114	5	6,775	10	4,339			10,510	47,100	70
55	24,395	11	6,800	44	17,535			130,215	211,800	71
301	202,250	49	54,364	252	147,895			3,828,795	4,700,447	72
368	169,350	71	58,851	280	106,490	11	4,000	662,859	1,125,103	73
13,130	7,797,613	870	1,008,361	10,900	6,017,798	1,300	771,454	13,874,810	30,227,816	74
450	202,763	86	98,833	352	188,594	12	5,830	580,068	1,156,080	75
973	419,939	64	73,614	769	293,098	140	52,332	1,090,466	1,038,510	76
642	345,830	127	91,397	477	236,620	38	17,804	601,014	1,182,085	77
580	306,656	42	39,820	475	244,476	72	22,360	180,205	660,000	78
7,706	4,459,959	433	505,213	5,895	3,217,697	1,378	737,049	5,419,170	12,022,200	79
54	25,065	7	4,965	47	20,100			353,592	421,000	80
198	130,736	23	28,106	175	102,540			138,561	352,650	81

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHICAGO, ILL.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
		Value of hired property.	Direct investment.	
82 Gas, illuminating and heating.....	4	\$192,300	\$40,851,246	\$1,242,453
83 Gas machines and meters.....	4	33,000	33,100	3,513
84 Glass, cutting, staining, and ornamenting.....	23	254,450	351,658	29,134
85 Gloves and mittens. (See also Hosiery and knit goods.).....	9	60,750	77,555	7,080
86 Gold and silver, leaf and foil.....	4	7,550	25,450	1,282
87 Grease and tallow. (See also Axle grease; Soap and candles.).....	5	4,000	432,200	14,689
88 Hairwork.....	33	353,500	119,741	35,897
89 Hand stamps.....	9	62,600	38,012	7,503
90 Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.).....	27	180,000	2,183,595	268,414
91 Hardware, saddlery.....	5	23,700	31,528	3,095
92 Hats and caps; not including wool hats. (See also Fur goods.).....	19	203,000	116,872	17,635
93 Hosiery and knit goods. (See also Gloves and mittens.).....	19	226,800	275,840	25,437
94 House furnishing goods, not elsewhere specified.....	3	60,000	195,950	11,800
95 Instruments, professional and scientific.....	8	37,700	59,295	6,562
96 Iron and steel.....	14	525,000	22,803,264	254,703
97 Iron and steel, forgings.....	6	87,800	688,000	27,003
98 Iron and steel, nails and spikes, cut and wrought, including wire nails.....	6	6,600	917,104	25,098
99 Ironwork, architectural and ornamental. (See also Foundry and machine shop products.).....	90	295,655	3,252,708	272,180
100 Jewelry. (See also Watch, clock, and jewelry repairing.).....	20	333,500	271,375	48,376
101 Labels and tags.....	4	18,500	25,150	2,339
102 Lamps and reflectors. (See also Gas and lamp fixtures.).....	9	59,500	87,850	8,721
103 Lead, bar, pipe, and sheet.....	3	3,000	680,464	31,050
104 Leather goods. (See also Pocketbooks; Trunks and valises.).....	6	120,975	359,502	22,244
105 Leather, tanned and curried.....	21	233,000	4,540,250	130,858
106 Lime and cement.....	5	10,000	525,101	15,026
107 Liquors, distilled.....	3	—	2,290,000	5,984,900
108 Liquors, malt. (See also Bottling.).....	34	7,550	16,200,563	2,533,047
109 Lithographing and engraving. (See also Engraving, steel, including plate printing; Photolithographing and engraving; Printing and publishing.).....	15	386,250	537,200	62,756
110 Lock and gun smithing.....	34	62,300	62,817	15,123
111 Looking-glass and picture frames.....	77	670,000	1,063,511	100,793
112 Lumber and other mill products from logs or bolts.....	5	107,250	103,650	10,536
113 Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.).....	116	1,151,030	9,150,940	580,877
114 Malt. (See also Liquors, malt.).....	18	405,000	4,282,200	252,590
115 Mantels, slate, marble, and marbleized.....	7	95,500	201,060	13,712
116 Marble and stone work. (See also Monuments and tombstones.).....	37	140,000	2,414,563	96,092
117 Masonry, brick and stone. (See also Plastering and stuccowork.).....	141	300,000	2,441,600	143,497
118 Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.).....	20	821,700	937,279	86,203
119 Millinery and lace goods. (See also Artificial feathers and flowers.).....	7	244,000	282,100	32,182
120 Millinery, custom work.....	200	1,124,000	1,021,396	127,107
121 Mineral and soda waters. (See also Bottling.).....	18	322,000	340,825	133,520
122 Mirrors.....	7	173,000	226,350	27,306
123 Models and patterns.....	23	112,000	67,685	12,436
124 Monuments and tombstones. (See also Marble and stone work.).....	14	56,500	154,070	11,472
125 Mucilage and paste.....	3	7,000	22,050	1,318
126 Musical instruments and materials, not specified.....	14	212,000	175,895	21,268
127 Musical instruments, organs and materials.....	9	336,700	2,784,200	108,411
128 Musical instruments, pianos and materials.....	8	131,600	333,900	77,944
129 Oil, linseed.....	6	47,000	1,541,892	85,644
130 Oil, lubricating.....	4	33,450	60,525	4,229
131 Oleomargarine.....	4	140,000	430,400	260,407
132 Optical goods.....	6	100,350	84,600	15,256
133 Painting and paper hanging.....	396	1,286,800	1,724,437	166,217
134 Paints. (See also Chemicals; Varnish.).....	31	630,000	3,676,178	497,383
135 Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.).....	37	170,100	700,077	254,172
136 Paving and paving materials.....	13	260,000	1,203,110	101,047
137 Perfumery and cosmetics. (See also Druggists' preparations, not including prescriptions.).....	11	81,575	116,510	28,601
138 Photography.....	112	682,500	464,133	93,921
139 Photolithographing and engraving. (See also Lithographing and engraving; Stereotyping and electrotyping.).....	12	66,500	125,490	19,248
140 Pickles, preserves, and sauces. (See also Fruits and vegetables, canning and preserving.).....	22	202,500	460,010	84,241
141 Pipes, tobacco.....	3	7,000	3,055	637

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHICAGO, ILL.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
1,186	\$772,916	83	\$121,200	1,103	\$651,716	.....	.....	\$635,586	\$4,319,687 82
30	23,493	6	6,136	24	17,337	.....	.....	19,400	54,298 83
600	361,424	48	54,272	551	306,352	1	\$800	260,700	817,600 84
216	73,913	12	9,876	96	38,640	108	25,397	227,700	367,525 85
90	46,246	6	5,242	34	17,604	50	23,400	71,557	135,312 86
164	106,408	13	14,100	151	92,308	.....	.....	462,950	778,824 87
236	116,969	48	40,992	128	52,005	60	23,072	91,333	307,300 88
55	40,888	12	14,160	43	26,728	.....	.....	25,086	91,620 89
1,704	946,988	125	134,732	1,385	724,172	194	88,084	1,049,904	2,724,988 90
46	28,348	5	3,960	41	24,388	.....	.....	11,965	50,449 91
206	117,428	27	27,052	93	45,780	86	43,696	112,276	327,925 92
666	218,092	31	35,802	495	145,417	140	36,873	274,615	598,977 93
68	30,086	3	2,200	51	22,886	11	5,000	343,100	452,834 94
65	43,148	18	19,740	47	23,408	.....	.....	22,864	110,250 95
4,326	3,081,598	91	128,746	4,235	2,952,852	.....	.....	19,217,414	24,317,891 96
259	194,712	20	34,744	179	109,708	60	50,200	364,523	687,400 97
445	226,988	24	36,100	414	185,376	7	5,312	450,355	849,709 98
2,427	1,043,507	197	245,885	2,222	1,304,201	8	3,421	2,345,209	5,018,159 99
330	278,331	51	58,900	288	210,431	.....	.....	439,520	873,000 100
44	11,984	4	3,904	14	4,580	26	3,500	25,040	50,460 101
80	49,534	12	11,109	66	35,825	2	2,600	36,305	125,650 102
186	120,240	34	33,320	152	80,020	.....	.....	2,447,381	2,584,200 103
313	138,332	21	23,390	291	114,842	1	100	177,315	410,797 104
1,739	1,073,702	53	82,484	1,577	941,898	104	49,320	5,144,914	7,395,371 105
390	167,735	25	22,380	305	145,355	.....	.....	48,727	358,194 106
158	130,447	17	42,700	141	87,687	.....	.....	952,916	8,030,863 107
2,051	1,442,804	183	374,814	1,865	1,065,650	3	2,310	3,416,306	10,223,718 108
680	411,826	50	79,011	630	332,815	.....	.....	300,740	951,785 109
78	50,621	30	28,868	38	21,129	1	624	69,981	172,123 110
1,602	804,345	154	141,871	1,304	590,860	144	71,608	1,042,324	2,517,417 111
181	68,498	4	3,498	136	53,760	41	11,240	161,025	300,780 112
8,050	4,820,840	441	501,818	7,398	4,182,103	217	136,850	10,195,546	17,604,494 113
481	347,044	36	54,480	445	292,564	.....	.....	3,009,550	4,329,100 114
326	228,736	24	20,910	262	178,428	40	30,000	246,612	582,260 115
1,400	1,162,401	94	123,621	1,302	1,032,780	4	6,000	1,291,891	3,184,121 116
6,233	4,176,055	210	272,260	6,006	3,878,795	17	25,000	7,523,862	13,086,157 117
665	389,734	80	104,582	357	194,640	228	90,503	1,278,723	2,061,336 118
553	230,204	32	46,724	281	122,260	240	61,220	286,548	664,930 119
1,102	562,957	327	226,003	770	335,784	5	570	920,641	1,954,076 120
263	168,407	48	47,022	213	120,385	2	1,000	104,602	670,923 121
391	267,802	30	30,512	312	197,150	40	31,200	226,188	578,398 122
145	119,522	29	28,184	114	89,882	2	1,456	24,752	200,898 123
101	68,013	15	13,101	86	54,912	.....	.....	94,501	213,950 124
12	6,410	4	2,704	8	3,482	.....	.....	14,341	24,525 125
205	114,672	17	12,048	150	73,702	38	28,022	75,493	239,960 126
1,258	693,334	41	40,402	392	240,542	825	412,300	974,558	2,425,950 127
459	249,092	17	19,616	393	188,136	49	41,340	352,222	755,450 128
206	110,991	24	37,146	181	82,345	1	500	2,312,529	2,789,704 129
23	18,246	9	9,240	14	9,006	.....	.....	215,135	260,750 130
219	170,414	34	57,008	185	112,446	.....	.....	1,314,300	1,884,800 131
85	59,057	22	20,201	41	24,192	22	14,664	81,810	183,000 132
3,177	2,228,992	507	458,882	2,538	1,678,078	131	92,032	1,764,287	4,932,627 133
808	503,895	201	242,140	605	350,409	2	1,140	3,045,129	4,760,675 134
289	174,012	71	70,856	215	101,956	3	1,200	338,620	1,260,860 135
1,389	757,412	49	73,410	1,340	684,002	.....	.....	2,075,163	3,275,609 136
156	68,402	21	16,146	135	52,316	.....	.....	114,170	319,050 137
521	350,339	148	145,066	351	194,210	22	11,063	280,491	969,280 138
150	111,374	23	28,940	124	80,934	3	1,500	80,395	216,300 139
338	166,234	59	63,150	278	102,394	1	750	623,036	1,064,956 140
8	4,764	2	1,800	6	2,964	.....	.....	2,060	9,950 141

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CHICAGO, ILL.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
142	Plastering and stuccowork. (See also Masonry, brick and stone.)	39	\$62,500	\$257,383	\$15,151
143	Plumbers' supplies. (See also Brass castings and brass finishing.)	6	55,000	1,255,346	25,300
144	Plumbing and gas fitting.....	278	1,068,500	1,550,718	121,381
145	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	328	4,855,500	8,138,228	2,304,972
146	Printing and publishing, music. (See also Bookbinding and blank-book making.)	10	107,400	86,210	24,328
147	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	318	5,120,500	6,146,440	2,702,760
148	Printing materials.....	10	272,525	603,075	36,430
149	Refrigerators.....	3	32,000	60,200	2,000
150	Regalia and society banners and emblems.....	9	117,500	64,066	11,274
151	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	28	120,100	542,075	44,521
152	Rubber and elastic goods.....	9	30,000	115,390	7,118
153	Saddlery and harness.....	163	663,500	1,193,543	90,183
154	Sausage. (See also Slaughtering.)	11	25,500	30,337	3,082
155	Saws.....	9	95,500	245,400	23,541
156	Scales and balances.....	3	20,200	57,800	2,605
157	Sewing machine repairing.....	6	22,000	2,215	2,021
158	Sewing machines and attachments.....	6	104,300	305,800	108,179
159	Shipbuilding.....	6	5,975	534,356	9,014
160	Shirts. (See also Furnishing goods, men's.)	38	733,850	1,136,025	67,882
161	Show cases.....	14	245,600	131,470	26,785
162	Silk and silk goods.....	10	326,164	422,096	35,761
163	Silversmithing.....	4	40,850	35,800	7,360
164	Slaughtering and meat packing, wholesale. (See also Lard, refined; Sausage.)	41	400,000	38,878,995	6,100,722
165	Slaughtering, wholesale, not including meat packing. (See also Lard, refined; Sausage.)	16	208,500	343,200	57,304
166	Smelting and refining.....	6	33,500	136,190	10,981
167	Soap and candles. (See also Grease and tallow.)	16	50,130	4,512,545	632,300
168	Springs, steel, car and carriage.....	5	94,500	501,876	32,442
169	Stamped ware. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	4	12,900	311,575	9,330
170	Stationery goods, not elsewhere specified.....	7	73,000	147,150	8,512
171	Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	16	268,750	2,626,628	349,805
172	Stencils and brands.....	7	67,500	42,375	8,722
173	Stereotyping and electrotyping. (See also Type founding.)	6	181,500	200,750	20,483
174	Sugar and molasses, refining.....	3	210,000	278,000	36,790
175	Surgical appliances. (See also Artificial limbs.)	10	92,000	97,950	40,061
176	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	292	1,266,500	2,932,470	215,660
177	Tobacco, chewing, smoking, and snuff.....	8	268,500	685,995	587,592
178	Tobacco, cigars and cigarettes.....	371	940,500	1,729,234	438,324
179	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	20	40,500	107,285	5,735
180	Trunks and valises. (See also Leather goods.)	12	178,750	341,150	22,500
181	Type founding. (See also Stereotyping and electrotyping.)	3	208,000	438,545	27,900
182	Umbrellas and canes.....	15	64,750	22,580	6,802
183	Varnish. (See also Paints.)	9	72,000	1,271,071	88,189
184	Vault lights and ventilators. (See also Foundry and machine shop products.)	4	20,100	36,275	4,224
185	Vinegar and cider.....	11	100,200	558,380	24,190
186	Washing machines and clothes wringers.....	3	6,308	4,149	540
187	Watch, clock, and jewelry repairing. (See also Jewelry.)	190	601,500	307,707	66,031
188	Window shades.....	12	113,000	217,320	32,291
189	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	24	270,500	431,980	43,989
190	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	32	156,500	180,303	26,018
191	All other industries (a)	93	1,383,931	7,274,500	983,226

^a Embraces ammunition, 1; artists' materials, 2; bags, paper, 1; bellows, 1; belting and hose, rubber, 1; bluing, 2; boot and shoe findings, 1; bronze castings, 1; carpets, wood, 1; china, decorating, 2; cigar molds, 1; clothing, horse, 1; cordage and twine, 1; cordials and sirups, 1; dentists' materials, 2; drug grinding, 1; emery wheels, 1; enameled goods, 1; fireworks, 1; foundry supplies, 1; fruits and vegetables, canning and preserving, 2; furs, dressed, 1; gas stoves, 2; glass, 1; glucose, 1; glue, 1; ice, artificial, 1; ink, printing, 2; ink, writing, 2; iron and steel, doors and shutters, 1; iron and steel, pipe, wrought, 1; ivory and bone work, 2; japanning, 2; jewelry and instrument cases, 2; kindling wood, 1; lapidary work, 1; lard, refined, 2; lasts, 2;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CHICAGO, ILL.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
453	\$340,104	55	\$57,633	302	\$284,787	6	\$3,744	\$598,206	\$877,430 142		
730	423,082	64	48,470	461	245,902	225	128,710	431,204	1,248,404 143		
2,586	1,041,391	398	388,033	2,185	1,552,658	3	700	2,736,415	5,608,851 144		
7,103	4,478,257	900	1,000,000	5,585	3,209,059	618	268,598	4,600,350	14,030,378 145		
57	39,554	37	28,160	14	6,898	6	4,406	37,080	157,000 146		
5,487	4,581,101	1,048	1,144,666	3,409	2,579,601	1,030	856,924	3,154,735	13,249,400 147		
329	168,880	36	43,978	85	50,102	208	60,800	113,398	439,400 148		
116	49,454	22	21,338	94	28,116	—	—	41,980	110,000 149		
178	78,576	14	13,840	164	64,730	—	—	61,248	156,050 150		
584	394,805	48	57,890	535	336,625	1	350	1,154,404	1,574,744 151		
86	42,395	20	17,880	47	20,065	19	3,550	85,253	173,950 152		
880	520,445	207	166,316	563	295,123	120	50,006	676,351	1,486,256 153		
48	25,125	13	11,005	35	14,120	—	—	169,193	218,600 154		
90	65,406	17	18,544	73	46,802	—	—	143,104	261,216 155		
64	43,775	6	5,928	33	22,247	25	15,600	28,611	85,221 156		
8	4,338	4	2,604	3	1,214	1	520	1,650	10,200 157		
328	173,040	21	16,689	288	149,680	19	6,680	174,770	535,065 158		
230	148,091	12	12,405	218	136,586	—	—	116,797	336,148 159		
1,390	581,784	57	55,030	1,001	404,496	332	122,208	941,543	1,854,654 160		
216	160,850	30	30,840	171	124,310	15	11,700	166,130	425,025 161		
805	295,036	49	54,314	684	217,172	72	24,150	314,855	785,845 162		
50	31,322	6	6,474	44	24,848	—	—	64,880	184,924 163		
17,430	10,691,602	875	967,956	15,523	9,242,487	1,041	481,240	164,730,508	194,119,148 164		
436	314,540	25	35,712	384	260,300	27	18,528	8,828,857	9,487,254 165		
72	50,638	18	18,594	54	32,039	—	—	501,155	726,200 166		
1,074	582,728	134	150,651	904	415,777	36	10,300	7,237,639	9,487,542 167		
240	165,680	17	22,080	223	143,600	—	—	213,265	565,000 168		
420	172,831	18	23,560	77	60,238	325	89,024	219,931	429,600 169		
68	52,778	18	20,080	46	30,046	4	1,750	44,856	121,396 170		
2,224	1,289,260	249	256,363	1,783	944,427	192	68,470	1,552,224	3,021,738 171		
75	56,536	13	14,060	62	42,476	—	—	22,500	114,150 172		
265	167,040	22	38,013	243	129,327	—	—	85,765	367,000 173		
96	80,314	32	44,404	58	33,210	6	2,700	1,239,232	1,427,312 174		
141	103,788	40	44,316	85	56,196	7	3,276	138,405	360,300 175		
2,600	1,460,090	340	324,204	2,160	1,088,742	103	56,084	2,590,224	5,332,354 176		
464	215,824	43	62,058	417	162,518	4	1,248	500,841	1,436,272 177		
2,551	1,405,103	389	301,651	710	324,537	1,452	778,915	1,806,888	4,167,419 178		
159	101,392	28	22,822	131	78,570	—	—	33,261	194,161 179		
206	162,638	35	38,953	231	123,680	—	—	157,802	383,700 180		
195	102,800	26	32,500	19	9,200	150	121,040	400,240	765,000 181		
28	15,898	16	10,576	12	5,922	—	—	19,661	53,195 182		
184	188,314	63	107,070	120	80,844	1	400	794,978	1,233,319 183		
75	46,492	7	9,024	68	37,468	—	—	35,344	117,300 184		
138	107,540	39	48,200	99	58,250	—	—	264,315	539,794 185		
11	5,108	3	1,508	8	3,600	—	—	4,920	11,254 186		
396	276,697	161	124,857	233	150,910	2	930	122,511	305,903 187		
119	75,952	26	23,160	82	44,492	11	8,300	320,448	530,010 188		
366	217,511	42	47,976	272	144,836	52	24,700	377,241	893,200 189		
280	160,860	43	40,401	236	123,430	7	2,930	115,824	382,550 190		
3,085	2,165,483	360	405,388	3,111	1,580,936	514	170,159	8,802,667	14,023,058 191		

leather, dressed skins, 1; mats and matting, 1; nets and seines, 1; oil, resin, 1; paper goods, not elsewhere specified, 1; paper patterns, 1; pens, fountain and stylographic, 1; photographic apparatus, 1; photographic materials, 1; pocketbooks, 2; pulp goods, 1; pumps, not including steam pumps, 2; racking, hose, 1; registers, car fare, 1; registers, cash, 1; rules, ivory and wood, 1; safes and vaults, 1; screws, machine, 1; sewing machine cases, 2; shoddy, 2; sporting goods, 2; starch, 1; steam packing, 1; taxidermy, 2; tinfoil, 1; toys and games, 2; typewriters and supplies, 1; upholstery materials, 1; watch and clock materials, 2; taxidermy, 2; tinfoil, 1; toys and games, 2; typewriters and supplies, 1; upholstery materials, 1; watch and clock materials, 1; watch cases, 2; whips, 2; windmills, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CINCINNATI, OHIO.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
1	All industries (a)	7,822	\$31,936,526	\$104,483,032	\$10,037,152
2	Artificial feathers and flowers. (See also Millinery and lace goods.)	3	4,575	420	376
3	Awnings, tents, and sails	10	50,350	28,090	7,302
4	Axle grease	3	7,800	13,775	1,202
5	Bags, other than paper	5	40,550	118,250	7,721
6	Bags, paper	4	39,750	115,100	7,233
7	Baking and yeast powders	4	10,750	4,005	1,588
8	Baskets and rattan and willow ware	16	61,990	21,481	6,169
9	Billiard tables and materials	4	53,800	130,400	9,391
10	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	174	258,856	249,170	41,437
11	Bookbinding and blank-book making. (See also Printing and publishing.)	21	67,450	105,059	13,486
12	Boot and shoe uppers	15	67,025	56,140	7,586
13	Boots and shoes, custom work and repairing	501	1,007,750	542,104	125,516
14	Boots and shoes, factory product	35	378,000	2,100,530	156,860
15	Bottling. (See also Liquors, malt; Mineral and soda waters.)	36	203,900	203,245	30,571
16	Boxes, cigar	6	30,375	253,266	6,625
17	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	8	55,425	48,205	7,773
18	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	7	74,000	105,500	11,894
19	Brass castings and brass finishing. (See also Plumbers' supplies.)	20	175,350	783,861	53,912
20	Bread and other bakery products	236	1,206,675	1,245,460	209,283
21	Brick and tile. (See also Clay and pottery products.)	43	174,125	456,449	44,035
22	Bridges	3	21,450	83,500	2,625
23	Brooms and brushes	23	113,350	201,442	22,404
24	Carpentering	389	507,100	1,579,966	340,656
25	Carpets, rag	30	61,350	22,360	5,900
26	Carriage and wagon materials	24	180,000	618,046	52,535
27	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	80	813,500	4,541,688	374,196
28	Cars and general shop construction and repairs by steam railroad companies	7	.....	201,294	.....
29	Cheese and butter, urban dairy product	29	16,300	107,745	3,857
30	Chemicals. (See also Paints; Varnish.)	8	28,000	597,524	116,389
31	China, decorating	4	5,000	4,540	929
32	Clay and pottery products. (See also Brick and tile.)	9	27,475	357,511	18,108
33	Cloth, sponging and refinishing	3	9,800	4,000	1,555
34	Clothing, men's, custom work and repairing	496	1,697,070	1,384,440	244,807
35	Clothing, men's, factory product	443	3,226,570	12,304,620	945,980
36	Clothing, men's, factory product, buttonholes	13	12,900	12,110	1,904
37	Clothing, women's, dressmaking	1,058	1,340,800	501,670	158,875
38	Clothing, women's, factory product	20	320,480	1,234,830	62,600
39	Coffee and spice, roasting and grinding	10	170,250	64,032	34,093
40	Coffins and burial cases, trimming and finishing	27	50,550	144,805	9,253
41	Coffins, burial cases, and undertakers' goods	5	43,660	1,259,455	29,062
42	Coke	4	.....	33,060	1,260
43	Confectionery	162	657,200	580,040	118,020
44	Cooperage	53	90,150	625,322	43,747
45	Cordage and twine	6	60,800	780,955	55,510
46	Cotton goods. (See also Hosiery and knit goods.)	6	380,150	1,296,717	105,539
47	Cutlery and edge tools. (See also Files; Hardware; Saws; Tools, not elsewhere specified.)	10	40,575	17,365	4,204
48	Dentistry, mechanical	64	223,625	56,335	28,787
49	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	7	21,425	8,405	2,401
50	Dyeing and cleaning	34	103,160	64,805	16,537
51	Electrical apparatus and supplies	6	53,450	206,755	16,603
52	Electroplating	11	54,500	37,085	8,750
53	Enameling goods	4	33,250	116,873	9,300
54	Engraving and diesinking	14	74,800	44,440	8,083
55	Eugraving, wood	21	50,050	63,205	11,173
56	Fancy articles, not elsewhere specified	14	30,925	9,265	3,036
57	Flavoring extracts	7	33,825	49,385	7,134
58	Flouring and grist mill products	13	128,300	226,450	22,470
59	Food preparations. (See also Fish, canning and preserving; Fruits and vegetables, canning and preserving.)	23	73,800	113,755	13,057
60	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	126	1,835,150	7,205,405	550,241
61	Foundry supplies	4	23,900	241,105	31,195

^a Includes a return from a manufacturer of "Timber products, not manufactured at mill" having an office in Cincinnati. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CINCINNATI, OHIO.

AVERAGE NUMBER OF EMPLOYEES AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.				
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
96,689	\$47,691,332	12,522	\$10,962,821	61,856	\$30,235,331	22,311	\$6,403,180	\$92,545,231	\$196,063,983	1			
4	1,970	3	1,054	1	316			285	2,700	2			
71	31,158	16	13,176	49	16,782	6	1,200	40,016	107,650	3			
14	8,074	6	4,850	8	3,224			46,095	70,800	4			
131	58,660	12	13,780	77	32,865	42	12,015	327,115	531,000	5			
70	36,188	11	18,750	40	14,426	19	3,012	184,674	268,500	6			
23	10,836	10	5,980	13	4,856			5,259	23,900	7			
56	24,589	23	11,513	31	12,252	2	624	73,213	120,250	8			
202	204,002	18	19,640	124	91,362	60	93,000	85,340	389,725	9			
534	337,841	104	151,048	337	185,881	3	912	171,900	690,422	10			
203	86,327	28	22,525	160	60,038	15	4,764	53,180	207,558	11			
98	50,271	22	18,133	66	28,323	10	3,815	54,086	141,075	12			
1,126	562,919	579	328,666	347	153,245	200	81,008	329,397	1,269,060	13			
4,137	1,876,620	153	173,805	2,953	1,253,742	1,031	440,073	3,151,004	6,024,454	14			
129	78,636	53	41,040	76	37,596			238,146	462,824	15			
231	87,982	11	8,556	153	61,160	67	18,266	194,570	389,795	16			
265	77,304	9	10,106	230	62,920	26	4,368	76,177	203,950	17			
166	85,530	15	14,034	121	52,936	30	18,500	130,255	283,480	18			
814	436,609	52	56,164	762	389,535			420,379	1,090,681	19			
1,470	710,741	431	282,439	1,035	431,954	13	5,368	1,564,021	3,168,490	20			
652	268,042	65	48,131	393	157,485	194	62,426	87,856	550,455	21			
110	67,400	8	9,480	102	57,980			89,650	182,000	22			
823	170,014	44	38,764	136	60,678	643	73,572	223,011	518,300	23			
2,578	1,730,286	454	420,030	2,105	1,344,997	19	4,250	3,110,396	6,557,222	24			
59	29,141	32	18,954	17	6,819	10	3,368	25,560	66,625	25			
708	371,781	60	53,602	665	293,112	73	25,017	499,218	1,326,436	26			
3,880	2,091,265	344	302,971	2,721	1,313,442	815	384,852	4,828,390	8,669,312	27			
644	332,082	10	6,019	634	326,063			229,355	662,349	28			
66	25,316	31	16,815	35	8,501			11,641	44,417	29			
167	116,052	44	57,910	123	58,112			436,501	838,102	30			
4	3,457	4	3,457					1,150	6,820	31			
202	144,526	20	10,103	220	99,848	52	25,580	82,459	343,146	32			
26	13,494	6	4,738	20	8,758			580	20,050	33			
2,893	1,458,065	604	415,692	1,261	557,833	1,028	484,540	1,432,702	4,019,495	34			
11,532	3,948,636	980	996,831	3,092	1,215,787	10,451	1,730,008	8,364,190	17,951,525	35			
64	16,692	14	7,104	45	8,488	5	1,100	2,613	27,035	36			
2,823	932,750	1,089	518,904	1,637	301,317	97	23,120	953,610	2,460,101	37			
1,048	672,677	48	57,516	1,129	493,309	471	121,852	956,183	2,285,508	38			
171	113,860	42	50,360	120	63,300			1,791,752	2,427,855	39			
54	37,559	26	20,910	28	16,630			91,585	189,926	40			
702	350,293	43	57,445	434	213,286	225	88,562	530,101	1,164,100	41			
11	5,881	1	416	10	5,445			20,523	37,399	42			
707	298,003	256	130,898	478	149,385	63	18,220	710,995	1,400,065	43			
922	466,212	74	77,732	658	298,850	190	89,630	904,041	1,530,512	44			
412	187,594	30	52,554	374	181,920	8	3,120	775,440	1,554,860	45			
567	188,357	28	30,644	530	157,713			876,146	1,428,204	46			
37	23,832	10	8,180	27	15,652			30,920	78,400	47			
113	104,387	67	76,736	42	26,091	4	1,500	42,132	214,986	48			
15	7,348	6	4,360	9	2,988			5,845	19,726	49			
135	59,807	47	27,620	88	32,187			23,902	131,060	50			
95	57,926	21	18,130	74	39,796			53,188	159,580	51			
182	54,935	17	12,542	79	32,836	36	9,557	21,426	112,930	52			
85	44,210	7	12,513	78	31,697			62,319	176,063	53			
118	64,409	24	22,592	90	39,637	4	2,180	47,120	143,930	54			
132	78,889	24	27,601	99	44,778	9	6,120	21,825	148,344	55			
43	15,044	15	8,488	16	4,272	12	2,284	10,985	36,805	56			
50	26,858	21	15,268	29	11,590			55,475	116,000	57			
105	63,657	24	23,402	81	40,165			532,842	899,588	58			
146	39,357	26	13,746	90	23,811	30	1,800	143,716	248,445	59			
5,690	3,414,193	459	512,284	4,894	2,681,028	346	220,031	4,137,778	10,000,516	60			
65	50,082	15	20,500	50	29,532			73,360	198,000	61			

locate its operations within the limits of a county or municipality. The data are included in "All other industries" in order that the operations of individual establishments may not be disclosed.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CINCINNATI, OHIO—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
62	Fruits and vegetables, canning and preserving. (See also Food preparations; Pickles, preserves, and sauces.)	4	\$10,450	\$157,300	\$8,160
63	Fur goods. (See also Hats and caps, not including wool hats.)	3	206,000	233,475	17,255
64	Furnishing goods, men's. (See also Shirts.)	53	398,250	385,075	16,134
65	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	106	341,000	274,015	50,802
66	Furniture, chairs	11	62,450	176,875	15,236
67	Furniture, factory product	62	606,300	3,055,078	263,580
68	Glass, cutting, staining, and ornamenting	10	44,100	48,080	4,883
69	Grease and tallow. (See also Axe grease; Soap and candles.)	9	31,840	105,610	9,508
70	Hairwork	15	60,750	43,035	7,382
71	Hand stamps	7	18,300	5,725	2,852
72	Hats and caps, not including wool hats. (See also Fur goods; Straw goods, not elsewhere specified.)	14	62,975	32,525	6,709
73	Hosiery and knit goods. (See also Cotton goods; Gloves and mittens; Woolen goods.)	16	82,700	568,970	27,519
74	Ice, artificial	3		224,200	20,810
75	Ink printing	3	60,500	207,400	57,622
76	Instruments, professional and scientific	8	27,460	36,610	3,601
77	Iron and steel, forgings	6	40,500	92,600	5,149
78	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	20	145,100	468,700	29,495
79	Jewelry. (See also Watch, clock, and jewelry repairing.)	8	108,700	1,079,050	34,814
80	Kindling wood	10	13,450	5,435	1,973
81	Lamps and reflectors	3	11,700	2,925	1,161
82	Leather, tanned and curried	21	110,500	3,242,185	146,406
83	Lime and cement	7	7,850	15,435	2,135
84	Liquors, distilled	4	76,250	1,850,228	8,342,402
85	Liquors, malt. (See also Bottling.)	24	166,375	11,948,743	1,867,025
86	Liquors, vinous. (See also Liquors, distilled.)	5	21,500	35,055	4,070
87	Lithographing and engraving. (See also Engraving, steel, including plate printing; Photolithographing and engraving; Printing and publishing.)	9	90,200	1,707,003	132,789
88	Lock and gunsmithing	37	64,875	35,027	9,505
89	Looking-glass and picture frames	23	300,000	606,740	67,190
90	Lumber and other mill products from logs or bolts	12	150,000	1,373,076	54,382
91	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	27	241,000	1,120,290	93,592
92	Malt. (See also Liquors, malt.)	10	159,500	880,918	36,201
93	Mantels, slate, marble, and marbled	6	107,125	164,083	17,057
94	Marble and stone work. (See also Monuments and tombstones.)	26	151,125	406,059	74,270
95	Masonry, brick and stone. (See also Plastering and stuccowork.)	310	347,275	1,748,691	224,560
96	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	18	110,700	88,290	17,238
97	Milinery and lace goods. (See also Artificial feathers and flowers.)	3	22,000	15,850	1,572
98	Military, custom work	109	566,075	253,300	64,447
99	Mineral and soda wafers. (See also Bottling.)	15	42,400	130,125	12,221
100	Models and patterns	21	54,000	41,350	6,974
101	Monuments and tombstones. (See also Marble and stone work.)	19	33,100	232,854	9,774
102	Mucilage and paste	3	10,800	2,020	2,785
103	Musical instruments and materials, not specified. (See also Musical instruments, organs and materials.)	9	16,500	5,195	2,341
104	Musical instruments, pianos and materials	4	29,225	67,340	4,035
105	Oil, lubricating	3	16,250	41,644	6,732
106	Optical goods	10	34,125	24,880	3,801
107	Painting and paper hanging	440	763,200	645,848	108,374
108	Paints. (See also Chemicals; Varnish.)	15	233,000	2,102,534	204,713
109	Paper patterns	3	8,300	7,060	927
110	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	31	104,075	195,060	63,057
111	Paving and paving materials	64	81,600	638,078	49,230
112	Photography	33	282,130	57,188	27,020
113	Photolithographing and engraving. (See also Lithographing and engraving; Stereotyping and electrotyping.)	3	9,500	4,025	1,333
114	Pickles, preserves, and sauces. (See also Fruits and vegetables, canning and preserving.)	11	100,350	127,905	37,218
115	Plastering and stuccowork. (See also Masonry, brick and stone.)	92	94,750	151,280	22,495
116	Plumbers' supplies. (See also Brass castings and brass finishing.)	5	79,500	149,400	15,405

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CINCINNATI, OHIO—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
332	\$78,132	11	\$10,950	226	\$60,812	95	\$6,370	\$117,423	\$278,500 62		
172	86,018	24	23,166	72	32,332	76	30,520	317,075	488,500 03		
982	300,841	105	95,038	205	66,161	672	130,642	405,572	1,000,055 64		
476	276,125	126	92,482	314	106,515	36	17,128	328,948	880,605 65		
314	135,822	24	21,720	243	95,794	47	18,308	87,965	200,725 66		
3,134	1,656,855	156	161,169	2,500	1,298,342	388	107,344	1,448,070	4,208,974 67		
71	38,948	15	12,600	56	26,288	.....	.....	45,590	120,900 68
61	35,562	14	11,812	47	23,750	.....	.....	194,545	318,400 69
82	30,173	18	13,816	42	11,071	22	5,286	22,815	77,550 70		
25	10,466	8	5,240	15	4,228	2	1,000	5,593	25,600 71		
97	39,195	26	17,405	65	18,514	6	3,276	31,884	100,433 72		
763	202,370	20	28,734	262	77,764	472	95,872	403,120	750,875 73		
93	54,950	11	11,160	82	43,700	.....	.....	41,800	207,000 74
101	55,133	23	24,533	73	48,300	5	2,300	318,400	683,000 75		
30	21,678	10	9,816	20	11,862	.....	.....	28,855	65,655 76
110	55,030	12	12,918	104	42,112	.....	.....	138,870	219,630 77
561	341,196	32	32,400	529	308,736	.....	.....	371,523	896,202 78
344	217,700	60	64,100	274	145,400	10	8,200	848,175	1,317,000 79		
39	14,776	10	7,042	29	7,734	.....	.....	4,137	24,250 80
18	9,308	6	4,940	12	4,368	.....	.....	4,175	16,500 81
935	530,353	57	77,031	868	454,882	10	6,840	3,189,687	4,142,545 82		
30	12,719	11	7,161	11	3,638	8	1,020	5,580	27,080 83		
415	287,252	40	81,200	360	108,682	15	7,280	2,420,977	11,471,073 84		
1,732	1,408,605	156	322,101	1,576	1,176,444	.....	.....	2,400,317	7,454,417 85
20	6,220	3	1,570	17	4,050	.....	.....	8,970	20,800 86
904	530,330	63	128,288	831	388,275	10	18,767	537,849	1,543,901 87		
70	39,003	35	28,112	31	14,356	4	1,535	28,401	98,044 88		
713	325,530	52	38,490	595	253,380	66	33,060	381,602	982,300 89		
682	323,287	36	52,795	640	260,492	6	1,000	847,097	1,402,278 90		
1,268	845,780	73	84,144	1,183	756,040	12	5,596	1,053,710	2,987,590 91		
100	70,403	14	14,505	95	55,958	.....	.....	696,911	898,082 92
141	95,340	25	24,416	90	49,344	26	21,580	150,690	348,215 93		
382	240,030	54	52,850	324	185,641	4	1,530	204,486	710,728 94		
3,845	2,548,664	887	397,761	3,412	2,134,333	46	16,570	2,684,765	6,450,003 95		
140	60,352	32	25,208	75	27,604	39	16,450	148,312	311,048 96		
91	22,684	3	5,580	88	17,124	.....	.....	23,000	57,000 97
461	152,812	158	74,557	298	77,115	5	1,140	300,101	640,226 98		
121	69,330	18	13,958	103	49,372	.....	.....	62,185	213,220 99
88	55,457	22	21,528	60	31,420	6	2,500	17,007	68,460 100		
142	107,550	26	29,980	113	75,070	3	1,900	84,601	280,910 101		
18	9,354	2	1,580	12	6,110	4	1,004	6,113	20,547 102		
13	9,449	9	7,786	2	814	2	840	6,776	23,690 103		
49	30,470	10	10,280	39	20,100	.....	.....	83,800	148,000 104
30	24,720	10	12,500	20	12,220	.....	.....	73,550	180,000 105
22	17,000	13	11,108	9	5,892	.....	.....	17,153	49,832 106
1,907	1,214,249	505	387,042	1,225	739,842	177	87,365	841,631	2,062,590 107		
348	247,477	78	98,747	270	148,730	.....	.....	1,181,483	2,063,678 108
5	3,874	2	2,500	3	1,374	.....	.....	969	11,100 109
151	83,727	56	40,698	95	34,029	.....	.....	110,987	356,105 110
1,836	804,965	85	93,470	1,745	708,311	6	3,175	1,074,803	2,246,628 111		
181	107,483	54	49,263	121	55,704	6	2,426	56,317	250,715 112		
10	8,304	4	5,444	5	2,080	1	780	1,070	12,050 113		
144	62,010	21	27,984	108	31,026	15	3,000	199,320	445,855 114		
485	334,122	98	81,511	381	250,707	6	1,814	231,611	694,240 115		
69	41,420	17	15,064	52	26,366	.....	.....	197,956	363,227 116

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CINCINNATI, OHIO—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
117	Plumbing and gas fitting.	114	\$300,750	\$381,070	\$55,045
118	Printing and publishing book and job. (See also Bookbinding and blank-book making; Printing and publishing, music.)	110	1,043,570	2,020,373	311,084
119	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	74	652,800	1,852,196	711,940
120	Refrigerators	3	4,000	43,050	4,245
121	Regalia and society banners and emblems	7	52,100	410,325	104,221
122	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	49	263,600	377,405	62,376
123	Saddlery and harness	71	691,600	1,013,284	102,701
124	Safes and vaults	9	831,450	1,983,363	347,318
125	Sausage. (See also Slaughtering.)	6	13,125	31,007	1,712
126	Saws	4	91,575	151,950	75,818
127	Seales and balances	3	12,000	11,580	1,880
128	Sewing machine repairing	5	11,650	1,555	1,401
129	Shipbuilding	6	5,500	89,880	5,296
130	Shirts. (See also Furnishing goods, men's.)	49	83,150	74,240	10,769
131	Show cases	3	11,000	67,300	3,350
132	Slaughtering and meat packing, wholesale. (See also Lard, refined; Sausage.)	29	202,750	1,917,405	116,770
133	Slaughtering, wholesale, not including meat packing. (See also Lard, refined; Sausage.)	54	76,075	298,085	35,682
134	Soap and candles. (See also Grease and tallow.)	16	235,800	1,090,809	105,589
135	Springs, steel, car and carriage	4	28,950	159,644	15,705
136	Stationery goods, not elsewhere specified	5	10,850	54,965	5,503
137	Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	3	40,000	185,500	7,425
138	Stencils and brands	3	5,350	1,290	695
139	Stereotyping and electrotyping. (See also Type founding.)	3	34,250	26,215	4,081
140	Surgical appliances. (See also Artificial limbs.)	6	43,300	17,200	30,249
141	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	123	378,500	741,094	70,003
142	Tobacco, chewing, smoking, and snuff	8	95,215	73,259	66,562
143	Tobacco, cigars and cigarettes	337	1,048,050	1,354,071	481,890
144	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	7	21,200	63,025	3,805
145	Toys and games	4	13,650	62,005	3,852
146	Trunks and valises	11	211,550	191,095	35,072
147	Umbrellas and canes	14	82,175	71,660	9,681
148	Upholstery materials. (See also Woolen goods.)	3	15,000	213,500	21,885
149	Varnish. (See also Paints.)	9	133,500	157,435	14,817
150	Vinegar and elder	9	44,325	77,402	10,284
151	Washing machines and clothes wringers	13	28,525	15,080	3,801
152	Watch, clock, and jewelry repairing. (See also Jewelry.)	102	258,400	163,850	34,139
153	Window shades	4	46,000	30,400	4,785
154	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	16	31,000	329,684	25,300
155	Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	19	117,850	223,303	59,514
156	All other industries (a)	94	873,275	5,414,130	425,895

a Embraces ammunition, 2; artificial limbs, 2; bellows, 1; bells, 1; belting and hose, leather, 2; bicycle and tricycle repairing, 1; blacking, 2; bluing, 2; brassware, 1; calcium lights, 1; carriages and sleds, children's, 1; care and general shop construction and repairs by street railroad companies, 1; cigar molds, 1; cleansing and polishing preparations, 1; combs, 1; cordials and sirups, 1; corsets, 2; dentists' materials, 1; dyeing and finishing textiles, 1; engraving, steel, including plate printing, 1; felt goods, 1; files, 1; fish, canning and preserving, 1; galvanizing, 1; gas machines and meters, 2; gloves and mittens, 1; glue, 2; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 1; hand knit goods, 2; hardware, 2; hardware, saddlery, 1; ink, writing, 2; iron and steel, 1; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; ivory and bone work, 1; japanning, 2; jewelry and

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CINCINNATI, OHIO—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
674	\$447,413	151	\$137,752	522	\$300,621	1	\$30	\$650,748	\$1,455,915
1,605	971,260	242	240,661	1,263	667,802	100	62,800	2,010,245	3,934,846
1,431	980,537	248	238,331	832	513,802	351	228,344	561,871	2,951,826
40	18,900	5	4,830	33	13,620	2	450	14,850	60,000
493	170,122	58	64,634	432	110,552	3	936	335,205	773,850
443	261,140	79	65,440	355	190,291	9	5,400	745,322	1,336,120
1,167	673,987	175	144,187	726	380,104	266	149,696	1,602,011	3,630,707
2,041	1,154,303	195	120,231	1,514	803,904	332	170,168	1,228,709	3,321,257
20	13,463	8	4,928	18	8,535			36,180	64,510
243	112,404	18	15,990	215	86,408	10	10,000	93,170	325,800
18	12,226	5	4,640	13	7,586			10,600	29,045
7	3,721	4	2,692	3	1,029			975	9,200
167	87,931	7	6,229	160	81,702			80,100	205,450
230	85,952	56	34,794	63	19,784	120	31,374	78,676	209,130
74	98,790	6	6,122	66	31,540	2	1,128	41,440	108,200
629	416,304	85	109,712	521	299,025	23	7,507	5,741,815	6,903,303
195	130,959	64	63,692	130	67,067	1	200	2,118,888	2,607,885
727	307,377	55	70,138	650	233,899	22	3,340	2,944,975	3,826,480
182	96,448	15	19,504	43	23,804	125	53,140	126,284	293,411
41	11,056	7	2,470	28	8,036	6	1,100	15,036	49,757
158	89,800	21	21,250	135	66,000	2	1,500	82,616	250,500
4	2,548	3	2,080	1	408			1,420	5,500
51	42,826	10	11,175	34	23,851	7	7,800	24,907	80,576
68	28,840	47	18,020	20	10,508	1	312	9,396	99,050
805	461,932	173	149,373	548	276,029	84	36,530	547,310	1,318,501
80	30,340	11	11,240	64	17,800	5	1,300	53,720	164,326
2,762	1,183,603	407	274,179	625	253,070	1,720	656,354	1,133,112	3,288,453
75	39,766	12	12,104	63	27,602			25,062	111,800
78	38,612	10	7,332	68	31,280			23,450	86,400
200	145,080	29	35,460	176	82,220	55	28,000	183,845	510,793
92	45,081	27	21,900	62	22,196	3	895	65,569	157,850
131	64,215	7	6,585	64	29,830	60	27,800	150,670	298,800
97	50,925	28	32,554	34	16,371	5	2,000	201,565	325,250
57	36,514	17	13,996	40	22,518			108,915	194,025
33	18,428	13	8,088	20	10,340			17,230	49,246
207	172,491	108	87,368	153	81,203	6	3,920	110,147	397,200
54	27,512	10	7,580	41	19,308	3	624	52,850	102,950
204	185,007	32	29,364	184	105,098	78	50,550	505,310	750,496
175	87,294	27	28,882	148	58,412			155,113	360,223
2,944	1,448,808	303	328,128	2,359	1,020,444	282	100,326	5,934,996	9,416,210

Instrument cases, 2; lard, refined, 2; lead, bar, pipe, and sheet, 2; leather, dressed skins, 1; lightning rods, 2; mats and matting, 1; musical instruments organs and materials, 1; oil, cottonseed and cake, 1; oil, resin, 1; paper goods, not elsewhere specified, 1; pens, gold, 1; photographic materials, 1; plated and britannia ware, 1; pocketbooks, 2; printing and publishing, music, 2; printing materials, 1; registers, cash, 1; shoddy, 1; silk and silk goods, 2; smelting and refining, 1; stamped ware, 2; starch, 2; straw goods, not elsewhere specified, 1; sugar and molasses, refining, 2; taxidermy, 1; timber products, not manufactured at mill, 1; tobacco, stemming and rehandling, 1; type founding, 2; typewriters and supplies, 2; woodenware, not elsewhere specified, 1; woolen goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CLEVELAND, OHIO.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
1	All industries	2,307	\$8,217,164	\$69,732,761	\$4,002,256
2	Awnings, tents, and sails	8	27,650	31,670	2,809
3	Baking and yeast powders	7	59,545	102,661	18,412
4	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	100	122,400	112,083	* 13,427
5	Bookbinding and blank-book making. (See also Printing and publishing.)	8	29,600	33,975	3,222
6	Boot and shoe uppers	4	12,500	4,630	1,412
7	Boots and shoes, custom work and repairing	128	115,430	53,310	13,982
8	Boots and shoes, factory product	4	37,000	202,720	8,834
9	Boxes, cigar	5	12,750	25,771	1,302
10	Boxes, fancy and paper. (See also Fancy articles, not elsewhere specified.)	7	41,000	123,260	5,855
11	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	4	55,500	61,300	14,900
12	Brass castings and brass finishing. (See also Bronze castings; Plumbers' supplies.)	13	34,900	143,599	6,565
13	Bread and other bakery products	65	147,530	300,126	48,355
14	Briek and tile	24	55,725	262,580	15,750
15	Brooms and brushes	14	18,800	35,755	3,034
16	Carpentering	218	103,665	822,990	27,666
17	Carpets, rag	16	11,125	17,182	1,020
18	Carriage and wagon materials	3	-----	234,150	14,196
19	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	50	212,550	411,010	35,928
20	Cars and general shop construction and repairs by steam railroad companies	6	-----	504,088	-----
21	Chemicals. (See also Fertilizers; High explosives; Paints; Varnish.)	6	10,300	1,341,018	35,832
22	Clothing, men's, custom work and repairing	130	527,405	673,025	77,410
23	Clothing, men's, factory product	18	422,570	440,045	68,577
24	Clothing, women's, dressmaking	96	85,845	20,343	9,205
25	Clothing, women's, factory product	7	274,155	788,000	54,750
26	Coffins and burial cases, trimming and finishing	3	2,000	0,150	207
27	Confectionery	19	188,450	127,075	45,755
28	Cooperage	21	6,015	129,085	8,004
29	Corsets	4	13,875	8,696	1,544
30	Dentistry, mechanical	11	28,930	12,320	3,320
31	Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds; Perfumery and cosmetics.)	7	18,315	8,900	5,310
32	Dyeing and cleaning	14	62,400	10,855	7,810
33	Electrical apparatus and supplies	5	59,375	397,500	21,833
34	Electroplating	5	20,000	17,015	2,428
35	Engraving, wood	4	7,805	2,225	858
36	Flavoring extracts	5	21,445	18,125	3,314
37	Flopping and grist mill products	8	29,055	448,027	32,502
38	Food preparations. (See also Fish, canning and preserving.)	6	9,310	10,265	1,738
39	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	102	447,655	6,831,035	669,140
40	Fur goods. (See also Hats and caps, not including wool hats.)	7	128,615	154,430	14,060
41	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	18	38,800	62,905	5,101
42	Furniture, factory product. (See also Furniture, chairs.)	18	90,220	305,747	19,067
43	Gas stoves	4	29,835	456,000	26,080
44	Glass, cutting, staining, and ornamenting	6	42,065	36,375	4,863
45	Hairwork	10	50,100	15,585	5,932
46	Hand stamps	7	16,825	21,340	2,079
47	Hardware. (See also Cutlery and edge tools; Tools, not elsewhere specified.)	11	36,200	550,385	21,962
48	Hats and caps, not including wool hats. (See also Fur goods.)	9	60,000	126,790	9,858
49	Hosiery and knit goods. (See also Woolen goods.)	8	34,260	153,645	9,792
50	Iron and steel	10	400,000	9,344,473	560,956
51	Iron and steel, bolts, nuts, washers, and rivets	5	56,670	1,008,250	58,668
52	Iron and steel, forgings	3	-----	1,090,765	27,727
53	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	8	25,445	94,647	7,837
54	Jewelry. (See also Watch, clock, and jewelry repairing.)	10	85,000	155,600	9,453
55	Liquors, malt. (See also Bottling.)	16	127,500	3,580,545	710,384
56	Liquors, vinous. (See also Liquors, distilled.)	6	10,000	94,300	2,730

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CLEVELAND, OHIO.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.						
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.					
50,674	\$28,355,505	4,750	\$4,847,505	37,982	\$20,221,470	7,933	\$3,280,461	\$65,645,649	\$113,240,115	1		
79	40,621	13	8,847	66	31,774	.....	.....	54,994	115,204	2
79	35,895	24	20,924	55	14,971	.....	.....	101,774	244,710	3
254	161,494	100	72,097	142	86,097	0	2,400	82,577	288,703	4		
81	38,914	14	12,620	66	26,064	1	230	25,956	83,300	5		
17	10,380	4	3,830	13	6,550	.....	.....	10,856	24,500	6
251	119,315	127	63,178	80	34,941	44	21,196	65,803	222,901	7		
272	127,216	14	14,680	124	47,703	184	64,833	187,711	380,806	8		
65	22,595	7	4,480	32	10,475	26	7,580	16,292	46,000	9		
160	51,348	12	11,142	88	26,634	60	13,572	47,307	116,737	10		
137	59,468	8	7,060	120	52,408	.....	.....	122,445	221,180	11
228	136,457	27	25,022	198	109,836	3	1,600	170,270	388,875	12		
453	208,480	93	68,836	360	109,644	.....	.....	611,625	1,171,316	13
453	107,720	9	6,100	444	101,620	.....	.....	86,828	379,600	14
92	45,582	18	16,022	62	20,260	12	8,700	45,945	188,050	15		
2,391	1,081,079	242	228,823	2,139	1,446,266	10	6,000	2,126,509	4,319,114	16		
25	9,071	17	6,444	7	2,452	1	175	11,414	24,446	17		
143	78,400	11	13,000	132	65,400	.....	.....	122,651	310,960	18
487	307,031	71	66,097	403	233,160	13	7,774	225,060	634,742	19		
1,156	626,000	33	25,376	1,123	600,714	.....	.....	392,078	1,074,922	20
303	201,695	34	51,040	269	150,635	.....	.....	522,955	961,355	21
1,039	637,407	172	174,466	295	168,043	572	294,058	605,504	1,056,259	22		
993	537,819	95	119,635	162	100,764	736	316,920	1,211,080	2,059,392	23		
319	101,010	99	63,832	219	47,700	1	78	159,490	292,885	24		
855	333,710	41	73,100	104	51,850	710	208,700	1,223,327	1,918,500	25		
6	2,000	3	400	3	1,600	.....	.....	7,207	9,947	26
273	115,716	68	40,284	111	58,660	94	12,772	257,275	515,400	27		
289	134,403	19	16,944	168	66,990	102	52,000	214,355	380,156	28		
50	15,040	4	2,920	35	9,580	11	3,140	11,050	32,200	29		
18	15,543	12	12,210	6	3,333	.....	.....	6,806	27,475	30
14	6,100	4	2,650	10	3,510	.....	.....	4,581	23,391	31
90	49,082	16	15,220	44	18,687	30	15,175	6,755	79,765	32		
298	203,398	24	30,932	272	171,506	2	960	91,166	446,200	33		
34	23,199	5	6,300	29	10,899	.....	.....	13,352	43,200	34
15	10,950	7	7,100	8	3,850	.....	.....	1,149	15,100	35
22	13,620	7	7,450	15	6,170	.....	.....	43,675	72,000	36
126	80,476	21	27,000	105	53,476	.....	.....	1,077,565	2,345,588	37
15	7,860	7	4,830	8	3,030	.....	.....	13,146	30,877	38
7,424	4,057,013	418	507,957	5,607	2,883,844	1,309	665,772	5,562,731	11,832,334	39		
98	50,216	25	25,566	73	24,050	.....	.....	136,890	249,284	40
70	42,148	15	9,120	55	33,028	.....	.....	51,181	125,110	41
323	168,543	37	36,805	281	120,748	5	2,400	523,777	823,157	42		
482	286,941	34	45,400	412	223,118	36	18,423	371,160	960,000	43		
47	32,430	8	10,200	39	22,180	.....	.....	103,285	217,000	44
36	20,818	11	12,184	24	8,434	1	200	13,105	48,770	45		
20	14,906	9	9,150	11	5,756	.....	.....	4,400	33,300	46
553	220,494	29	25,010	455	186,338	60	8,480	376,319	697,190	47		
295	107,748	15	18,930	70	31,278	210	58,140	101,970	370,975	48		
265	67,945	12	14,700	19	8,946	234	44,209	181,605	241,550	49		
5,826	3,665,580	92	175,759	5,734	3,480,821	.....	.....	10,489,997	15,472,100	50
1,115	483,371	39	58,536	434	190,270	642	230,766	1,124,405	1,848,170	51		
450	296,166	22	33,280	428	262,880	.....	.....	700,783	1,146,250	52
141	90,515	18	18,500	123	72,015	.....	.....	101,337	242,266	53
109	65,850	26	24,070	83	41,880	.....	.....	104,571	249,970	54
516	446,372	76	105,500	440	340,866	.....	.....	897,701	3,011,555	55
21	12,611	10	7,465	11	5,156	.....	.....	14,686	30,350	56

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
CLEVELAND, OHIO—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
57	Lock and gunsmithing.....	10	\$12,640	\$7,920	\$1,611
58	Looking-glass and picture frames.....	15	90,565	230,082	14,873
59	Lumber and other mill products from logs or bolts.....	3	156,500	260,850	25,730
60	Lumber, planing-mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	15	93,500	1,232,482	78,677
61	Malt. (See also Liquors, malt.).....	3	11,335	300,575	8,325
62	Mantels, slate, marble, and marbleized.....	3	16,500	18,453	2,106
63	Marble and stone work. (See also Monuments and tombstones.).....	6	16,650	24,975	3,084
64	Masonry, brick and stone. (See also Plastering and stuccowork.).....	68	16,345	539,765	6,642
65	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	7	28,780	59,315	9,021
66	Millinery, custom work.....	38	177,000	96,923	23,470
67	Mineral and soda waters. (See also Bottling.).....	6	7,200	14,968	1,739
68	Models and patterns.....	13	20,750	52,585	3,662
69	Monuments and tombstones. (See also Marble and stone work.).....	10	16,725	50,417	2,046
70	Musical instruments and materials, not specified. (See also Musical instruments, organs and materials.)	5	2,500	11,762	560
71	Oil, lubricating.....	8	14,000	188,300	16,377
72	Optical goods.....	3	20,000	18,420	2,245
73	Painting and paper hanging.....	80	148,800	263,433	20,555
74	Paints. (See also Chemicals; Varnish.).....	15	100,780	1,516,239	58,371
75	Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	7	13,835	56,015	14,458
76	Petroleum, refining.....	7	15,000	10,426,698	394,300
77	Photography.....	42	210,500	101,484	25,769
78	Photolithographing and engraving. (See also Lithographing and engraving; Stereotyping and electrotyping.).....	3	4,600	14,810	711
79	Plastering and stuccowork. (See also Masonry, brick and stone.).....	12	.....	0,350	.....
80	Plumbing and gas fitting.....	45	127,245	225,980	17,826
81	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	30	280,065	363,173	33,628
82	Printing and publishing, music. (See also Bookbinding and blank-book making.)	3	11,140	23,600	2,210
83	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	51	389,845	1,459,212	186,566
84	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	23	33,040	191,850	10,520
85	Rubber and elastic goods.....	3	36,325	705,072	40,902
86	Saddlery and harness.....	47	114,835	167,609	14,070
87	Sausage. (See also Slaughtering.).....	8	1,850	9,215	458
88	Shipbuilding.....	8	6,000	2,502,775	72,921
89	Shifts.....	6	40,625	43,280	4,767
90	Slaughtering and meat packing, wholesale. (See also Sausage.).....	9	46,000	630,060	28,597
91	Slaughtering, wholesale, not including meat packing. (See also Sausage.)	4	3,700	114,405	1,973
92	Soup and candles.....	4	10,000	53,557	3,291
93	Stamped ware. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	5	20,550	420,500	28,805
94	Stencils and brands.....	3	5,000	5,750	630
95	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	50	105,165	195,605	28,807
96	Tobacco, chewing, smoking, and snuff.....	3	60,975	103,000	10,275
97	Tobacco, cigars and cigarettes.....	121	174,635	190,941	79,053
98	Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	7	31,250	489,279	71,941
99	Trunks and valises.....	4	60,000	77,750	8,443
100	Umbrellas and canes.....	7	32,700	24,530	4,306
101	Varnish. (See also Paints.)	3	38,000	319,300	19,462
102	Watch, clock, and jewelry repairing. (See also Jewelry.)	20	33,400	20,052	3,959
103	Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	10	55,250	261,268	14,040
104	Wood, turned and carved. (See also Lumber, planing-mill products, including sash, doors, and blinds.)	8	21,520	56,175	4,960
105	All other industries (a).....	113	630,714	13,320,541	709,179

a Embraces ammunition, 1; artificial feathers and flowers, 1; artificial limbs, 2; bags, paper, 1; baskets and rattan and willow ware, 1; bellows, 1; bedding and hose, leather, 1; bicycle and tricycle repairing, 2; bicycles and tricycles, 1; billiard tables and materials, 2; boot and shoe cut stock, 1; bottling, 2; brass, 1; bridges, 1; bronze castings, 1; brass and general shop construction and repairs by street railroad companies, 1; celluloid and celluloid goods, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cork, cutting, 1; cutlery and edge tools, 2; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 2; fish, canning and preserving, 2; furniture, chairs, 1; galvanizing, 1; gas and lamp fixtures, 2; gas, illuminating and heating, 2; high explosives, 1; homes and whetstones, 1; house furnishing goods, not elsewhere specified, 1; ice, artificial, 2; ink, writing, 1; instruments, professional and scientific, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 2; kindling wood, 1; lead, bar, pipe and sheet, 1; leather, dressed skins, 1;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

CLEVELAND, OHIO—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
12	\$6,520	10	\$5,000	2	\$860			\$1,802	\$10,750 57		
281	137,403	23	18,941	251	114,802	7	\$5,600	119,905	467,774 58		
128	61,268	10	10,208	87	42,800	31	8,260	255,700	372,500 59		
883	500,265	58	67,086	821	431,270	4	1,000	1,380,330	2,208,987 60		
50	30,858	4	5,088	55	25,770			220,731	267,500 61		
42	29,452	5	4,100	29	17,002	8	8,200	30,403	63,030 62		
41	20,614	6	6,570	29	11,704	6	2,340	10,084	41,800 63		
1,042	720,000	76	90,446	958	623,714	8	5,840	612,323	1,457,074 64		
127	56,192	13	10,398	98	41,040	10	4,754	117,303	218,448 65		
205	80,146	60	36,110	145	44,036			133,903	298,027 66		
24	12,159	8	5,384	16	6,775			14,513	37,070 67		
99	73,491	14	13,956	85	50,535			12,022	96,100 68		
56	39,815	12	9,080	44	31,735			46,282	96,050 69		
8	4,825	5	3,125	3	1,700			2,335	12,140 70		
83	61,870	42	36,040	41	25,830			228,582	496,500 71		
16	12,600	3	6,000	13	6,600			14,200	32,500 72		
503	398,149	115	101,723	408	288,417	10	8,000	302,138	820,301 73		
352	232,430	83	93,185	228	124,895	41	14,430	1,151,280	1,943,080 74		
69	22,417	14	12,360	55	10,057			61,106	134,580 75		
1,500	807,133	237	206,290	1,188	588,576	174	102,258	8,368,522	10,588,501 76		
201	139,580	90	75,015	100	57,140	11	6,525	82,819	303,900 77		
23	15,455	6	6,780	15	7,475	2	1,200	2,860	25,250 78		
66	49,271	12	11,948	54	37,328			27,199	84,825 79		
453	310,572	77	80,037	375	239,035	1	500	350,666	780,926 80		
527	304,112	87	90,425	434	210,787	6	2,900	178,700	633,878 81		
25	18,450	13	12,450	12	6,000			3,750	25,400 82		
1,237	808,608	213	205,036	745	449,883	270	213,749	617,986	2,488,148 83		
168	94,907	36	33,978	132	60,920			268,189	464,545 84		
349	130,459	33	32,260	170	77,266	146	20,924	721,567	970,289 85		
334	174,487	54	48,415	206	118,593	14	7,470	133,018	364,762 86		
19	8,612	9	4,800	10	3,812			29,943	43,248 87		
2,030	1,151,262	90	92,200	1,733	960,912	207	98,150	1,394,013	2,973,300 88		
95	50,007	10	7,564	32	14,283	53	28,250	65,431	146,500 89		
427	250,353	67	70,800	360	188,553			4,530,402	4,810,993 90		
28	20,708	6	8,280	22	12,428			653,225	771,073 91		
24	17,408	9	9,580	15	7,848			39,746	71,000 92		
329	151,730	19	24,480	275	113,750	35	13,500	200,132	442,000 93		
9	6,150	3	2,050	6	8,200			2,327	14,000 94		
286	161,596	62	44,391	200	104,205	24	13,000	210,403	463,945 95		
292	151,183	13	28,700	19	8,038	260	119,450	234,105	490,000 96		
482	242,306	130	77,203	148	55,446	204	100,557	100,620	576,081 97		
245	127,125	23	26,170	177	80,955	45	20,000	182,673	475,580 98		
116	56,948	14	18,480	84	36,268	18	7,200	45,508	155,600 99		
30	18,376	9	9,588	19	7,588	2	1,200	32,820	69,796 100		
37	34,151	18	22,186	19	11,965			320,205	390,802 101		
43	28,689	17	12,830	26	15,850			18,425	57,795 102		
263	136,310	22	15,070	234	118,355	7	1,985	320,719	495,400 103		
100	65,510	15	13,072	84	51,738	1	700	19,836	114,780 104		
7,344	3,546,531	420	563,255	5,685	2,500,115	1,289	303,161	9,888,509	16,167,471 105		

leather, morocco, 1; leather, tanned and curried, 2; lime and cement, 2; liquors, distilled, 1; lithographing and engraving, 2; mucilage and paste, 1; musical instruments, organs and materials, 2; oil, lard, 1; oil, linseed, 1; oleomargarine, 1; paper, 1; paving and paving materials, 2; perfumery and cosmetics, 2; plumbers' supplies, 1; printing materials, 2; pumps, not including steam pumps, 2; regalia and society banners and emblems, 1; rules, ivory and wood, 2; safes and vaults, 1; screws, machine, 1; screws, wood, 1; sewing machine cases, 1; sewing machine repairing, 1; sewing machines and attachments, 2; shoddy, 2; show cases, 1; silk and sills goods, 1; sporting goods, 1; springs, steel, car and carriage, 2; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 2; stereotyping and electrotyping, 2; surgical appliances, 1; type founding, 1; upholstery materials, 2; vinegar and cider, 1; washing machines and clothes wringers, 1; wheelbarrows, 1; whips, 1; window shades, 2; wire, 1; woodenware, not elsewhere specified, 2; woolen goods, 1; worsted goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
COHOES, N. Y.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired property.	Direct investment.	
1	All industries.....	212	\$1,626,764	\$11,275,137	\$741,435
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	12	4,540	12,045	650
3	Boots and shoes, custom work and repairing.....	18	8,580	2,548	873
4	Boxes, fancy and paper.....	4	32,200	61,798	8,501
5	Bread and other bakery products.....	14	24,555	44,397	3,598
6	Carpentering.....	7	700	61,423	1,771
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	5	6,000	3,297	657
8	Clothing, men's, custom work and repairing.....	5	10,000	12,944	1,212
9	Clothing, women's, dressmaking.....	11	13,350	1,205	1,218
10	Dentistry, mechanical.....	3	5,250	3,550	584
11	Foundry and machine shop products. (See also Steam fittings and heating apparatus.)	8	25,750	247,248	11,890
12	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, factory product.)	4	8,325	22,934	2,145
13	Hosiery and knit goods. (See also Cotton goods.)	29	490,400	3,883,156	323,255
14	Masonry, brick and stone.....	4	2,000	11,775	370
15	Millinery, custom work.....	7	17,264	17,171	1,684
16	Painting and paper hanging.....	11	18,775	12,040	2,063
17	Plumbing and gas fitting.....	4	10,240	16,890	1,326
18	Printing and publishing, newspapers and periodicals. (See also Printing and publishing, book and job.)	5	21,825	22,855	4,981
19	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	5	7,200	14,046	881
20	Saddlery and harness.....	3	4,000	2,824	557
21	Tobacco, cigars and cigarettes.....	7	9,950	31,578	5,061
22	Watch, clock, and jewelry repairing.....	4	5,560	1,240	527
23	All other industries (a).....	42	898,800	6,786,370	367,622

^a Embraces baskets and raffia and willow ware, 1; boxes, wooden packing, 1; brick and tile, 2; bridges, 1; coffins and burial cases, trimming and finishing, 2; confectionery, 1; cotton goods, 2; cutlery and edge tools, 1; dyeing and finishing textiles, 1; electric light and power, 1; flouring and grist mill products, 1; furniture, factory product, 1; gas, illuminating and heating, 1; hardware, 1; house furnishing goods, not elsewhere specified, 1; iron and steel, 1; iron and steel, pipe, wrought,

COLUMBUS, OHIO.

1	All industries.....	708	2,600,182	10,178,703	1,715,050
2	Agricultural implements.....	3	8,500	680,004	33,290
3	Awnings, tents, and sails.....	3	13,000	18,150	3,520
4	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	58	56,500	62,505	6,326
5	Bookbinding and blank-book making. (See also Printing and publishing.)	4	16,000	7,075	1,508
6	Boots and shoes, custom work and repairing.....	61	54,010	20,378	4,911
7	Boots and shoes, factory product.....	3	51,175	172,744	27,625
8	Brass castings and brass finishing. (See also Plumbers' supplies.)	3	3,320	1,765	350
9	Bread and other bakery products.....	28	50,106	228,322	11,660
10	Brick and tile. (See also Clay and pottery products.)	11	5,000	186,225	6,018
11	Brooms and brushes.....	6	6,400	68,450	26,572
12	Carpentering.....	13	30,500	43,560	5,701
13	Carpets, rag.....	8	2,835	1,735	354
14	Carriage and wagon materials.....	4	12,100	236,784	13,443
15	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	13	81,890	2,702,581	350,598
16	Cars and general shop construction and repairs by steam railroad companies.....	3	-----	738,897	-----
17	Chemicals. (See also Paints.)	3	32,500	25,000	3,689
18	Clothing, men's, custom work and repairing.....	30	290,609	258,062	27,791
19	Clothing, women's, dressmaking.....	71	118,075	17,366	11,175
20	Coffee and spice, roasting and grinding.....	4	54,182	111,500	9,147
21	Confectionery.....	7	40,750	52,250	12,076
22	Dyeing and cleaning.....	8	10,500	16,545	1,967
23	Flouring and grist mill products.....	3	-----	84,056	9,693
24	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	24	69,240	1,841,077	176,414
25	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	6	23,120	4,782	2,548
26	Furniture, factory product. (See also Furniture, chairs.)	5	16,900	367,251	13,345

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

COHOES, N. Y.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.	1			
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages	Number.	Wages.	Number.	Wages.	Number.	Wages.						
8,930	\$3,155,050	208	\$274,027	6,146	\$2,107,014	2,495	\$774,000	\$5,730,987	\$10,836,260	1			
24	14,032	12	7,632	12	6,400	-----	-----	6,092	24,005	2			
22	9,748	14	6,515	4	1,825	4	1,408	5,068	18,726	3			
161	55,706	5	3,980	42	17,093	114	32,723	75,736	140,903	4			
51	30,446	18	14,902	38	15,484	-----	-----	80,254	124,200	5			
69	45,117	7	9,270	62	35,847	-----	-----	38,277	107,001	6			
11	6,221	5	3,571	4	1,750	2	900	2,367	11,110	7			
28	12,224	6	4,708	2	882	20	6,084	18,811	36,839	8			
41	14,590	9	5,700	32	8,890	-----	-----	3,850	29,800	9			
3	3,020	2	3,820	1	100	-----	-----	1,002	10,200	10			
165	105,101	10	9,354	149	80,703	6	6,044	64,205	284,221	11			
26	16,316	7	4,576	19	11,740	-----	-----	10,081	38,813	12			
4,126	1,383,738	73	93,953	1,984	647,688	2,060	642,247	2,768,577	5,058,882	13			
86	54,682	3	3,500	83	61,182	-----	-----	48,812	101,050	14			
29	10,000	13	4,954	16	5,046	-----	-----	21,930	43,275	15			
42	25,460	11	9,890	31	15,570	-----	-----	12,410	43,700	16			
28	13,857	6	4,270	20	9,581	-----	-----	16,042	34,909	17			
34	10,642	7	5,052	25	12,821	2	1,160	8,030	34,855	18			
25	10,836	3	2,280	22	8,556	-----	-----	10,400	23,797	19			
6	3,764	2	1,420	4	2,344	-----	-----	3,040	9,366	20			
41	21,712	6	3,692	8	2,106	27	15,014	16,814	48,073	21			
4	2,050	4	2,650	-----	-----	-----	-----	475	5,900	22			
3,010	1,297,958	75	67,672	3,593	1,168,886	251	66,920	2,400,615	4,658,549	23			

1; liquors, malt, 1; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 1; mineral and soda waters, 2; monuments and tombstones, 1; needles and pins, 2; photography, 2; printing and publishing, book and job, 2; pulp, wood, 1; shoddy, 1; soap and candles, 2; steam fittings and heating apparatus, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; wood, turned and carved, 1.

COLUMBUS, OHIO.

13,421	6,865,982	1,368	1,207,802	9,496	4,484,215	2,557	1,173,881	11,183,710	22,887,586	1
67	53,800	17	18,240	50	35,500	-----	-----	116,870	254,764	2
33	12,871	5	5,200	28	7,671	-----	-----	23,850	51,600	3
138	87,130	62	43,751	83	41,507	3	1,872	38,057	153,007	4
23	7,077	6	2,952	11	3,080	5	1,095	4,555	15,700	5
77	38,727	61	33,535	16	5,192	-----	-----	18,143	66,125	6
220	90,467	20	20,950	23	8,542	177	60,076	217,500	350,000	7
5	2,350	3	2,080	2	770	-----	-----	2,170	6,100	8
233	113,752	56	32,852	177	80,900	-----	-----	200,985	482,412	9
287	111,059	17	15,627	250	95,432	-----	-----	30,319	199,807	10
89	40,858	12	8,624	70	30,285	7	1,944	118,072	201,930	11
149	99,045	16	17,195	183	81,850	-----	-----	115,235	282,300	12
15	6,206	7	3,814	8	2,392	-----	-----	2,125	9,450	13
213	82,297	19	14,005	194	68,202	-----	-----	112,049	273,000	14
1,820	1,022,088	103	127,624	1,281	633,154	436	261,260	1,309,997	3,199,287	15
988	570,251	15	10,260	627	337,807	346	228,184	1,076,550	1,670,078	16
20	12,596	3	3,200	17	9,396	-----	-----	36,700	74,000	17
484	287,430	44	40,241	50	36,970	300	204,219	290,612	700,510	18
255	77,795	74	31,639	168	40,696	15	5,460	11,764	111,618	19
55	22,004	11	8,148	35	11,416	0	2,440	265,533	323,141	20
112	20,382	26	13,996	80	15,386	-----	-----	89,178	147,500	21
38	18,664	8	5,696	30	13,028	-----	-----	7,158	32,150	22
27	16,174	6	5,034	21	11,140	-----	-----	390,758	429,750	23
1,290	734,514	90	104,345	1,099	568,369	110	81,800	805,327	2,139,185	24
19	8,687	7	4,884	11	3,643	1	160	11,231	25,657	25
220	118,513	14	17,860	283	88,889	23	11,764	104,695	258,288	26

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
COLUMBUS, OHIO—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired prop-erty.	Direct investment.	
27	Hairwork	5	\$15,254	\$2,059	\$1,360
28	Hand stamps	3	4,500	3,425	506
29	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	7	20,520	85,450	8,009
30	Jewelry. (See also Watch, clock, and jewelry repairing.)	3	4,050	5,925	462
31	Liquors, malt	3	.....	1,023,000	204,838
32	Lock and gun smithing	4	5,900	2,055	661
33	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	9	31,050	335,437	10,765
34	Marble and stone work. (See also Monuments and tombstones.)	10	4,630	99,735	2,572
35	Masonry, brick and stone. (See also Plastering and stuccowork.)	5	2,950	5,935	1,146
36	Millinery, custom work	17	136,500	35,745	12,590
37	Mineral and soda waters	3	7,500	30,028	3,049
38	Monuments and tombstones. (See also Marble and stone work.)	5	16,500	41,705	7,550
39	Painting and paper hanging	14	17,300	16,020	1,961
40	Paving and paving materials	5	19,200	210,097	3,920
41	Photography	10	80,500	54,047	6,770
42	Plastering and stuccowork. (See also Masonry, brick and stone.)	7	6,250	16,450	740
43	Plumbing and gas fitting	11	66,000	87,115	8,892
44	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	14	88,674	127,635	12,913
45	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	16	203,070	430,231	95,545
46	Pumps, not including steam pumps	4	19,400	15,400	1,881
47	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	20	33,600	53,142	4,201
48	Saddlery and harness	12	32,750	143,320	6,432
49	Shirts. (See also Furnishing goods, men's.)	3	18,650	4,060	2,050
50	Slaughtering and meat packing, wholesale. (See also Slaughtering, wholesale, not including meat packing.)	3	.....	35,440	475
51	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	17	37,150	125,853	5,174
52	Tobacco, cigars and cigarettes	27	44,608	80,660	72,761
53	Trunks and valises	4	26,500	37,305	2,981
54	Watch, clock, and jewelry repairing. (See also Jewelry.)	13	40,045	8,802	3,220
55	All other industries (a)	72	505,250	4,984,360	410,896

a Embraces artificial limbs, 1; baskets and rattan and willow ware, 1; boxes, fancy and paper, 2; boxes, wooden packing, 1; cars and general shop construction and repairs by street railroad companies, 1; clay and pottery products, 1; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 2; cooperage, 1; cordage and twine, 1; cutlery and edge tools, 2; electroplating, 1; engraving, wood, 2; fancy articles, not elsewhere specified, 1; files, 2; food preparations, 1; furnishing goods, men's, 2; furniture, chairs, 1; gas, illuminating and heating, 1; grease and tallow, 1; hardware, 2; hardware, saddlery, 1; hosiery and knit goods, 1; iron and steel, 2; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, forgings, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; kaolin and other

COUNCIL BLUFFS, IOWA.

1	All industries	128	200,855	1,292,283	92,880
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	8	6,600	12,650	901
3	Boots and shoes, custom work and repairing	11	11,884	2,080	1,486
4	Bread and other bakery products	5	10,500	28,900	2,219
5	Brick and tile	7	5,200	83,925	2,163
6	Carpentering	9	3,850	121,600	6,728
7	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	4	.....	131,000	2,000
8	Clothing, men's, custom work and repairing	5	20,750	33,895	2,518
9	Flouring and grist mill products	3	.....	135,550	5,180
10	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	3	12,500	19,100	2,282
11	Masonry, brick and stone	5	1,000	52,100	6,060
12	Millinery, custom work	3	15,000	7,700	1,700
13	Photography	3	17,000	8,200	2,114
14	Plumbing and gas fitting	3	20,500	35,200	2,504
15	Printing and publishing, book and job. (See also Printing and publishing, music.)	3	10,306	8,700	1,340
16	Printing and publishing, newspapers and periodicals	4	35,715	92,256	14,084

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

COLUMBUS, OHIO—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
12	\$4,836	6	\$3,328	6	\$1,508			\$6,312	\$14,330 27
9	8,976	5	2,620	4	1,350			1,305	8,800 28
123	73,506	17	10,004	100	54,502			163,383	315,390 29
17	9,026	2	2,400	15	6,626			6,345	18,800 30
213	152,700	25	32,120	188	120,580			278,582	902,690 31
5	2,548	3	1,508	2	1,040			1,205	5,355 32
124	74,715	22	22,734	102	51,981			365,422	507,020 33
146	51,209	17	9,295	120	42,004			37,006	109,450 34
83	82,404	5	6,900	78	75,504			95,000	104,000 35
126	48,740	17	12,448	100	36,292			48,422	126,945 36
34	18,518	5	4,224	29	14,204			15,744	47,684 37
36	25,622	8	8,500	28	17,122			48,040	101,642 38
90	56,954	17	15,238	73	41,710			30,792	99,700 39
702	250,762	12	12,012	780	237,850			381,274	715,481 40
71	42,230	16	14,664	52	25,272	3	\$2,300	27,690	98,445 41
57	35,125	9	9,600	48	25,595			39,327	87,800 42
139	85,694	22	18,408	117	67,280			111,918	242,901 43
141	68,233	28	19,084	95	44,969	18	3,280	65,005	163,875 44
439	283,024	61	51,654	244	153,792	134	78,478	191,042	706,175 45
25	13,692	8	5,652	17	8,040			23,054	41,217 46
116	68,240	29	21,092	87	46,548			143,549	262,707 47
127	68,832	25	20,448	91	42,784	11	5,800	77,884	182,100 48
37	12,049	4	2,453	12	2,520	21	7,076	12,353	31,300 49
24	13,360	4	4,200	20	9,160			111,087	183,076 50
93	49,101	13	9,176	80	39,925			70,956	140,974 51
293	85,401	28	17,687	45	10,058	220	51,116	72,023	256,818 52
46	18,024	6	5,120	40	12,904			10,840	48,000 53
28	17,174	7	4,590	21	12,584			5,363	32,233 54
3,100	1,479,055	245	251,641	2,227	1,042,556	628	184,858	3,007,049	5,815,031 55

earth grinding, 1; lamps and reflectors, 1; leather, tanned and curried, 2; lime and cement, 2; looking-glass and picture frames, 2; mantels, slate, marble, and marbleized, 1; mattresses and spring beds, 2; millinery and lace goods, 1; oleomargarine, 1; paints, 2; patent medicines and compounds, 1; plumbers' supplies, 1; regalia and society banners and emblems, 1; saws, 1; slaughtering, wholesale, not including meat packing, 2; soap and candles, 2; stamped ware, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; stereotyping and electrotyping, 1; surgical appliances, 1; tools, not elsewhere specified, 1; umbrellas and canes, 1; washing machines and clothes wringers, 1; watches, 1; wheelbarrows, 1; window shades, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1.

COUNCIL BLUFFS, IOWA.

1,614	822,682	146	120,959	1,401	651,226	68	50,497	1,272,946	2,527,383	1
22	15,672	9	6,450	13	9,222			7,134	30,500	2
15	7,094	0	3,170	9	4,764			4,070	15,010	3
19	10,972	6	3,744	13	7,228			30,504	54,734	4
145	50,972	4	3,160	141	47,812			17,624	100,050	5
114	86,700	8	8,800	106	77,900			176,000	312,050	6
86	48,802	7	7,950	79	40,912			89,605	164,050	7
36	26,048	5	5,260	6	3,404	25	17,324	24,350	57,640	8
35	17,730	9	6,750	26	10,980			152,552	211,725	9
35	23,825	4	4,080	31	19,245			6,488	37,600	10
84	60,500	4	5,000	80	55,590			123,590	218,383	11
13	6,400	3	2,100	10	4,300			12,300	22,814	12
10	5,492	4	2,000	6	2,802			6,525	15,350	13
54	31,832	6	5,420	48	26,412			93,550	138,400	14
13	7,026	4	3,328	8	3,398	1	300	7,374	10,380	15
106	69,930	7	8,444	75	38,404	24	22,092	32,494	135,148	16

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION

COUNCIL BLUFFS, IOWA—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		
		Value of hired prop- erty.	Direct investment.	Miscellane- ous expenses.
17 Saddlery and harness.....	8	\$17,250	\$25,300	\$2,555
18 Tinsmithing, coppersmithing, and sheet-iron working.....	7	10,000	20,910	1,360
19 Tobacco, cigars and cigarettes.....	5	6,200	9,460	2,577
20 Watch, clock, and jewelry repairing.....	5	4,000	1,250	360
21 All other industries (a).....	27	52,600	458,417	31,971

a Embraces bottling, 2; cars and general shop construction and repairs by steam railroad companies, 2; clothing, women's, dressmaking, 2; confectionery, 2; cooperage, 1; dyeing and cleaning, 2; fruits and vegetables, canning and preserving, 1; furniture, cabinetmaking, repairing and upholstering, 1; grease and tallow, 1; ironwork, architectural and ornamental,

COVINGTON, KY.

1 All industries	1,308	1,711,012	6,897,380	1,026,570
2 Baskets and rattan and willow ware.....	4	7,500	2,400	901
3 Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	20	14,200	26,190	2,370
4 Bookbinding and blank-book making. (See also Printing and publishing.)	3	5,445	2,750	700
5 Boot and shoe uppers.....	3	8,250	2,020	810
6 Boots and shoes, custom work and repairing.....	221	237,125	118,017	27,722
7 Bread and other bakery products.....	39	47,205	98,940	9,756
8 Brick and tile. (See also Clay and pottery products.).....	9	12,150	65,060	9,573
9 Bridges.....	3	1,700	15,000	2,170
10 Brooms and brushes.....	4	6,000	2,295	915
11 Carpentering	207	271,390	641,020	280,311
12 Carpets, rag	13	18,100	5,300	1,448
13 Carriage and wagon materials.....	6	7,225	4,415	990
14 Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	3	-----	48,500	650
15 Cheese and butter, urban dairy product.....	8	4,775	10,850	2,230
16 Clothing, men's, custom work and repairing.....	14	46,115	145,880	6,648
17 Clothing, men's, factory product, materials furnished.....	22	17,755	46,025	3,331
18 Clothing, women's, dressmaking.....	46	40,000	36,195	5,256
19 Coffins and burial cases, trimming and finishing.....	10	8,825	32,730	1,649
20 Confectionery	18	33,415	21,003	4,163
21 Cooperage	18	22,600	30,260	4,328
22 Corsets	4	3,775	570	377
23 Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	3	1,200	2,010	240
24 Dyeing and cleaning.....	6	7,100	6,420	1,000
25 Fancy articles, not elsewhere specified.....	3	3,000	1,090	385
26 Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	9	11,800	168,746	7,012
27 Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, factory product; Mattresses and spring beds.)	48	55,525	46,783	8,864
28 Hand knit goods.....	3	2,450	645	325
29 Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	3	6,740	6,300	1,254
30 Lock and gun smithing.....	11	16,300	15,145	2,161
31 Looking-glass and picture frames	6	5,690	4,045	806
32 Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	3	9,550	67,700	4,550
33 Marble and stone work. (See also Monuments and tombstones.).....	4	6,000	36,200	4,200
34 Masonry, brick and stone. (See also Plastering and stuccowork.).....	38	31,775	103,620	10,115
35 Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	9	8,650	2,830	1,224
36 Millinery, custom work.....	21	37,165	75,260	5,328
37 Monuments and tombstones. (See also Marble and stone work.).....	4	5,135	10,550	2,291
38 Musical instruments and materials, not specified	3	2,000	7,185	345
39 Painting and paper hanging	81	73,165	188,335	17,110
40 Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	3	4,000	2,000	1,280
41 Paving and paving materials	16	19,935	30,210	4,770

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

COUNCIL BLUFFS, IOWA—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
25	\$14,278	7	\$4,820	14	\$7,452	4	\$2,006	\$19,470	\$47,188	17	
25	16,880	3	2,740	22	14,140	.....	.....	21,645	48,385	18
19	10,220	6	2,960	4	1,680	9	5,580	10,879	25,570	19	
9	6,824	5	3,860	4	2,964	.....	.....	1,050	10,010	20
749	304,995	38	30,323	706	272,377	5	2,295	435,087	804,861	21	

1; lumber and other mill products from logs or bolts, 2; monuments and tombstones, 2; painting and paper hanging, 2; paper, 1; paving and paving materials, 1; printing and publishing, music, 1; stationery goods, not elsewhere specified, 1; surgical appliances, 1; wood, turned and carved, 1.

COVINGTON, KY.

7,602	4,232,010	1,491	1,275,756	5,161	2,611,805	950	344,458	8,228,070	15,999,575	1
7	4,000	4	2,050	2	1,100	1	250	2,251	8,900	2
48	30,722	20	16,432	27	14,080	1	200	27,790	72,910	3
11	6,150	3	2,050	8	3,500	.....	.....	14,000	24,800	4
6	4,000	2	2,000	4	2,000	.....	.....	7,150	13,310	5
326	180,539	221	133,802	64	32,450	41	14,287	148,238	395,000	6
106	62,155	42	32,945	64	20,210	.....	.....	133,474	254,070	7
121	37,147	12	6,198	64	16,036	45	14,012	0,680	67,400	8
14	7,137	3	2,637	8	3,900	3	600	0,650	19,300	9
13	7,000	2	1,800	6	3,425	5	1,775	7,800	18,400	10
1,327	894,935	282	270,065	1,007	621,720	38	3,150	2,186,970	3,927,740	11
17	8,875	13	7,463	4	1,412	.....	.....	9,855	22,505	12
12	7,925	5	4,375	7	3,550	.....	.....	17,350	33,300	13
31	20,100	5	6,150	25	13,150	1	800	15,770	43,460	14
23	8,650	8	4,700	15	3,050	.....	.....	3,405	18,400	15
143	77,156	22	27,640	27	12,270	94	37,246	139,800	258,460	16
353	95,180	24	18,346	323	75,586	6	1,248	760	100,750	17
163	55,320	48	28,698	115	26,622	.....	.....	82,450	158,120	18
46	18,476	13	7,956	17	8,370	10	2,150	62,015	95,080	19
53	10,022	24	12,352	27	7,420	2	150	21,130	50,600	20
84	50,000	17	13,450	35	20,700	32	15,850	57,135	132,030	21
10	2,825	4	1,575	6	1,250	.....	.....	5,000	9,100	22
5	1,750	1	1,000	3	600	1	150	1,685	5,180	23
18	9,075	6	4,850	10	3,825	2	400	4,165	10,940	24
11	3,550	3	1,400	8	2,150	.....	.....	5,500	10,400	25
168	85,408	19	18,922	117	55,246	32	11,300	65,954	188,633	26
111	71,475	51	38,725	58	32,015	2	735	84,275	196,515	27
7	2,550	3	1,250	4	1,300	.....	.....	4,720	8,600	28
10	18,350	4	4,400	15	8,950	.....	.....	17,050	41,750	29
25	17,538	11	9,818	14	7,720	.....	.....	6,850	31,850	30
8	4,620	6	4,120	2	600	.....	.....	3,370	10,600	31
74	40,850	6	8,100	68	41,750	.....	.....	124,570	195,960	32
60	39,980	5	4,300	47	30,880	8	4,800	28,810	79,960	33
280	183,662	38	39,080	242	143,982	.....	.....	337,090	629,430	34
17	10,705	9	6,480	8	4,225	.....	.....	14,950	29,800	35
75	25,942	20	12,410	55	13,526	.....	.....	46,740	93,210	36
20	15,563	5	5,213	12	9,250	3	1,100	20,900	47,790	37
5	3,850	4	3,250	1	600	.....	.....	1,080	6,300	38
377	269,591	85	81,605	267	107,986	25	20,000	270,332	643,500	39
8	6,500	5	5,450	2	750	1	300	3,300	13,200	40
106	55,415	16	13,785	89	41,430	1	200	126,910	215,850	41

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
COVINGTON, KY.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
		Value of hired prop- erty.	Direct investment.	
42 Photography	7	\$17,750	\$5,610	\$1,910
43 Plastering and stuccowork. (See also Masonry, brick and stone.)	40	47,320	60,170	10,779
44 Plumbing and gas fitting	11	16,125	37,350	3,582
45 Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	8	9,065	10,140	1,288
46 Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	6	14,250	89,220	7,705
47 Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	20	29,335	70,805	6,146
48 Saddlery and harness	12	21,000	54,785	3,395
49 Sewing machine repairing	5	7,000	2,990	845
50 Shipbuilding	4	2,850	3,935	410
51 Shirts	22	13,975	10,145	2,038
52 Slaughtering and meat packing, wholesale	4	500	90,200	2,820
53 Slaughtering, wholesale, not including meat packing	5	14,200	21,800	3,710
54 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	19	25,725	77,325	5,680
55 Tobacco, chewing, smoking, and snuff	9	100,750	629,300	218,340
56 Tobacco, cigars and cigarettes	30	38,345	82,815	17,912
57 Tobacco, stemming and rehandling	8	39,665	140,815	12,325
58 Trunks and valises	4	9,550	3,915	1,900
59 Umbrellas and canes	4	1,630	3,770	341
60 Washing machines and clothes wringers	4	4,000	1,020	530
61 Watch, clock, and jewelry repairing	15	21,410	15,215	2,627
62 Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	6	9,900	320,170	11,790
63 Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	6	12,665	51,090	2,930
64 All other industries (a)	52	133,212	2,907,351	267,118

(a) Embraces awnings, tents, and sails, 2; bottling, 1; boxes, cigar, 1; boxes, wooden packing, 2; brass castings and brass finishing, 1; ears and general shop construction and repairs by street railroad companies, 1; chemicals, 1; city and pottery products, 2; coffee and spice, roasting and grinding, 2; cordage and twine, 1; cutlery and edge tools, 1; electroplating, 1; flouring and grist mill products, 2; furniture, factory product, 1; gas, illuminating and heating, 1; glass, 1; hairwork, 2; hosiery and knit goods, 1; ice, artificial, 1; iron and steel, 2; iron and steel, nails and spikes, cut and wrought,

DALLAS, TEX.

1 All industries	312	909,410	5,250,118	505,257
2 Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	15	21,275	15,150	3,985
3 Boots and shoes, custom work and repairing	20	30,780	9,797	3,771
4 Bread and other bakery products	7	21,000	28,822	5,273
5 Brick and tile	7	24,800	208,689	14,078
6 Carpentry	21	12,165	93,375	16,327
7 Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	5	16,545	43,800	2,590
8 Clothing, men's, custom work and repairing	8	37,650	30,542	4,633
9 Clothing, women's, dressmaking	24	42,250	41,528	6,288
10 Confectionery	4	40,000	37,160	8,924
11 Dyeing and cleaning	9	16,420	3,058	2,080
12 Flouring and grist mill products	3	83,350	161,950	43,310
13 Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	7	12,415	372,650	28,128
14 Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, chairs; Furniture, factory product; Mattresses and spring beds.)	4	6,085	2,875	840
15 Lock and gun smithing	3	2,500	32,510	655
16 Lumber, planing mill products, including sash, doors, and blinds	4	5,000	85,000	11,970
17 Masonry, brick and stone. (See also Plastering and stuccowork.)	9	7,500	170,400	50,413
18 Millinery, custom work	3	26,000	16,925	4,773
19 Monuments and tombstones. (See also Marble and stone work.)	3	4,500	20,600	6,240
20 Musical instruments and materials, not specified	4	3,635	60,830	703
21 Painting and paper hanging	9	38,265	85,450	9,565
22 Patent medicines and compounds	5	3,800	92,850	21,182
23 Photography	6	29,775	11,490	3,603
24 Plastering and stuccowork. (See also Masonry, brick and stone.)	6	2,650	12,525	1,238
25 Plumbing and gas fitting	7	31,000	77,050	9,425
26 Printing and publishing, book and job	15	129,500	226,675	17,970

MANUFACTURES.

793

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

COVINGTON, KY.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
12	\$7,640	6	\$4,850	6	\$2,790	.....	.....	\$5,275	\$18,910	42	
217	152,600	40	38,629	177	113,007	.....	.....	171,000	387,720	43	
57	36,210	15	16,236	42	19,974	.....	.....	45,050	104,840	44	
25	12,616	8	7,000	11	4,586	6	\$970	3,315	20,240	45			
84	52,940	10	10,030	53	33,000	21	9,850	18,162	92,210	46			
106	63,481	22	19,651	83	43,780	1	50	115,453	224,880	47			
42	24,900	13	11,950	28	12,300	1	650	32,030	70,210	48			
7	6,300	4	4,700	3	1,600	.....	.....	2,600	12,180	49	
7	4,649	4	3,024	3	1,625	.....	.....	6,600	12,750	50	
53	15,936	21	8,778	26	5,808	6	1,350	1,800	24,450	51			
35	18,000	9	8,300	23	9,070	3	1,230	161,480	266,450	52			
16	12,300	5	6,200	11	6,100	.....	.....	174,500	229,235	53	
76	40,223	26	23,266	50	25,957	.....	.....	75,150	161,490	54	
423	159,450	28	30,100	301	106,550	94	22,800	402,750	986,750	55			
107	47,722	34	20,084	8	2,558	65	25,080	37,158	121,880	56			
127	50,430	14	18,350	100	29,080	4	3,000	191,302	299,350	57			
12	6,900	4	3,200	8	3,700	.....	.....	10,620	23,800	58	
4	2,180	4	2,180	.....	.....	.....	.....	1,400	4,460	59	
4	3,050	4	3,050	.....	.....	.....	.....	2,740	7,300	60	
28	19,220	12	11,170	13	6,800	3	1,250	12,245	40,780	61			
293	115,050	11	14,450	32	18,000	250	82,600	296,350	607,780	62			
29	19,900	6	6,150	23	13,750	.....	.....	31,140	61,340	63	
1,530	881,978	120	134,699	1,274	682,354	130	64,925	2,306,026	4,019,227	64			

including wire nails, 1; kindling wood, 2; leather, morocco, 1; lime and cement, 1; liquors, distilled, 2; liquors, malt, 2; lumber and other mill products from logs or bolts, 1; mineral and soda waters, 1; models and patterns, 2; mucilage and paste, 1; optical goods, 1; oysters, canning and preserving, 1; photolithographing and engraving, 1; pickles, preserves, and sauces, 2; smelting and refining, 1; soap and candles, 1; sporting goods, 1; toys and games, 1; vinegar and cider, 2.

DALLAS, TEX.

4,082	2,520,639	528	505,270	3,099	1,744,920	455	270,440	4,354,769	9,054,766	1
54	38,016	20	15,520	34	23,096	.....	.....	14,431	66,112	2
36	20,886	19	11,580	10	5,152	7	4,148	9,108	38,200	3
33	23,908	10	9,040	23	14,208	.....	.....	34,358	79,300	4
240	89,223	14	11,680	198	38,543	28	9,000	56,450	218,850	5
280	179,203	27	29,928	253	140,276	.....	.....	254,741	485,714	6
37	27,502	1	1,040	34	24,080	2	2,472	20,160	70,992	7
63	49,432	10	8,750	4	3,876	49	37,000	32,775	95,200	8
151	70,121	28	22,272	102	39,974	21	7,875	44,337	139,900	9
36	15,428	5	7,020	31	8,408	.....	.....	82,390	141,900	10
20	10,868	12	7,183	7	3,485	1	200	1,877	18,600	11
52	45,844	8	10,744	44	35,100	.....	.....	841,825	1,094,824	12
129	88,125	8	8,027	121	79,498	.....	.....	132,520	343,250	13
14	5,448	4	1,872	10	3,576	.....	.....	1,950	9,700	14
10	5,795	4	2,730	4	2,365	2	700	1,435	9,350	15
99	75,444	8	10,000	91	65,444	.....	.....	96,600	229,000	16
303	215,817	12	10,097	291	199,720	.....	.....	492,960	816,119	17
60	25,748	10	10,604	41	15,144	.....	.....	46,925	100,000	18
19	13,190	6	3,700	13	9,490	.....	.....	17,200	52,000	19
7	6,723	1	1,040	6	5,683	.....	.....	1,700	14,000	20
122	99,086	13	19,182	107	78,704	2	1,200	84,560	221,500	21
10	13,364	6	7,461	13	5,903	.....	.....	6,100	69,000	22
42	26,902	12	14,420	17	10,072	13	2,410	17,060	57,888	23
45	37,260	11	12,540	34	24,720	.....	.....	32,500	80,800	24
63	52,646	13	16,292	50	36,354	.....	.....	81,280	170,000	25
176	115,054	29	26,476	121	78,638	26	9,940	208,000	426,550	26

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DALLAS, TEX.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired property.	Direct investment.	
27	Printing and publishing, newspapers and periodicals	23	\$126,500	\$200,313	\$106,835
28	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	5	10,000	18,576	2,548
29	Saddlery and harness	10	70,400	707,350	54,335
30	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	4	11,000	60,500	2,510
31	Tobacco, cigars and cigarettes	4	7,800	7,754	3,408
32	Watch, clock, and jewelry repairing. (See also Jewelry.)	11	18,700	101,050	3,029
33	All other industries (a)	47	106,200	2,158,479	143,718

a Embraces awnings, tents, and sails, 1; axle grease, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; coffee and spice, roasting and grinding, 1; coffins and burial cases, trimming and finishing, 2; cooperage, 2; cotton, compressing, 1; cotton goods, 1; electrical apparatus and supplies, 1; engraving, wood, 1; food preparations, 1; furniture, chairs, 2; furniture, factory product, 2; gas, illuminating and heating, 1; hardware, 1; hand stamps, 1; hats and caps, not including wool hats, 1; ice, artificial, 1; ironwork, architectural and ornamental, 2;

DAVENPORT, IOWA.

1	All industries	475	1,031,350	8,732,122	780,201
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	19	25,800	22,114	3,616
3	Boots and shoes, custom work and repairing	33	21,210	40,300	2,959
4	Bread and other bakery products	18	46,180	149,524	12,893
5	Brick and tile	5	3,100	36,348	1,110
6	Brooms and brushes	4	35,485	8,664	4,179
7	Carpentering	42	20,510	377,263	167,921
8	Carpets, rug	3	1,490	964	188
9	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	13	10,000	135,785	7,557
10	Clothing, men's, custom work and repairing	25	88,140	114,385	11,715
11	Clothing, women's, dressmaking	32	39,400	12,403	3,703
12	Confectionery	3	11,750	71,575	17,820
13	Cooperage	6	6,000	74,583	6,244
14	Dentistry, mechanical	8	22,350	20,505	2,763
15	Flouring and grist mill products	3	5,250	565,319	15,899
16	Foundry and machine shop products	8	20,100	363,734	39,730
17	Furniture, cabinetmaking, repairing and upholstering. (See also Furniture, factory product; Mattresses and spring beds.)	6	14,120	64,031	3,855
18	Liquors, malt. (See also Bottling.)	5		443,700	65,281
19	Lumber and other mill products from logs or bolts	5	112,500	1,914,483	66,983
20	Malt. (See also Liquors, malt.)	4	21,050	118,519	7,664
21	Marble and stone work. (See also Monuments and tombstones.)	3	1,350	14,250	971
22	Masonry, brick and stone. (See also Plastering and stuccowork.)	12	7,100	70,920	1,046
23	Mattresses and spring beds. (See also Furniture.)	3	12,800	10,525	1,280
24	Millinery, custom work	8	52,450	44,300	5,293
25	Printing and paper hanging	27	24,100	47,804	3,615
26	Photography	8	35,250	16,700	3,604
27	Plastering and stuccowork. (See also Masonry, brick and stone.)	11	7,400	13,000	2,717
28	Plumbing and gas fitting	6	18,890	54,900	7,973
29	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	8	15,485	94,353	8,957
30	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	11	30,150	143,801	17,477
31	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	6	12,660	40,150	2,714
32	Saddlery and harness	9	17,330	38,932	2,487
33	Slaughtering and meat packing, wholesale	5		392,900	10,395
34	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	9	16,110	29,262	2,725
35	Tobacco, cigars and cigarettes	29	65,100	343,501	50,762
36	Watch, clock, and jewelry repairing. (See also Jewelry.)	13	22,710	11,411	2,521
37	All other industries (a)	65	169,940	2,881,565	204,860

a Embraces agricultural implements, 2; awnings, tents, and sails, 2; bags, other than paper, 1; bookbinding and blank-book making, 2; boot and shoe uppers, 1; boots and shoes, factory product, 2; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; bridges, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; cigar molds, 2; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 2; cordage and twine, 1; cutlery and edge tools, 2; dyeing and cleaning, 2; fancy articles, not elsewhere specified, 1; files, 1; fruits and vegetables, canning and preserving, 1; fur goods, 1; furnishing goods, n en's, 1;

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DALLAS, TEX.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.										
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.			Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.			
230	\$189,891	46	\$46,703	127	\$90,048	63	\$53,140	\$95,983	\$485,409	27
32	25,800	6	7,200	26	18,600	.....	.....	22,095	58,000	28
304	196,784	53	46,600	73	45,224	178	104,960	69,059	1,008,500	20
45	33,464	1	520	44	32,944	.....	.....	46,829	103,500	30
13	9,112	1	624	5	2,268	7	6,220	14,984	32,565	31
24	19,972	7	4,164	15	14,088	2	1,720	9,000	47,400	32
1,318	603,893	114	113,049	1,150	551,380	54	29,464	914,028	2,270,493	33

jewelry, 2; lime and cement, 1; liquors, malt, 1; lithographing and engraving, 1; looking-glass and picture frames, 1; marble and stone work, 2; mattresses and spring beds, 2; paving and paving materials, 2; printing materials, 1; sausage, 1; shirts, 2; soap and candles, 1; stencils and brands, 1; stereotyping and electrotyping, 1; trunks and valises, 1; umbrellas and canes, 1; window shades, 1.

DAVENPORT, IOWA.

5,136	2,214,002	675	573,507	3,290	1,317,001	1,171	323,494	6,098,349	10,357,232	1
34	19,117	18	8,300	20	10,417	1	400	10,379	42,767	2
43	19,026	25	10,975	6	2,475	12	5,576	11,064	39,053	3
123	66,489	34	33,105	89	33,384	.....	.....	330,638	465,416	4
64	14,812	5	1,992	28	5,815	31	7,005	3,735	24,557	5
59	15,593	5	3,200	25	5,050	29	6,743	20,923	58,002	6
337	201,013	48	87,116	283	161,197	6	2,700	344,053	770,793	7
7	2,850	3	1,500	4	1,350	.....	.....	1,107	4,500	8
135	62,700	24	18,100	105	41,300	6	3,300	76,238	187,542	9
180	77,531	17	13,050	38	20,781	125	42,800	68,444	181,594	10
127	31,600	28	11,836	96	19,404	3	300	4,830	46,028	11
54	29,500	3	5,550	51	23,950	.....	.....	80,088	163,560	12
111	59,831	5	4,000	15	6,307	91	49,374	110,026	194,492	13
11	11,405	8	8,955	3	2,450	.....	.....	5,182	24,412	14
57	42,820	15	20,320	42	22,500	.....	.....	764,572	827,300	15
171	97,957	15	18,061	134	68,245	22	11,621	103,525	330,627	16
29	15,312	7	4,752	22	10,500	.....	.....	32,153	67,527	17
62	44,620	13	16,200	49	28,420	.....	.....	88,489	279,700	18
612	233,708	34	34,500	578	199,268	.....	.....	1,353,507	1,729,607	19
37	13,815	6	5,175	31	8,640	.....	.....	108,878	153,702	20
37	18,851	2	1,440	35	17,411	.....	.....	15,885	36,200	21
260	84,716	22	15,885	187	69,331	.....	.....	81,521	173,902	22
18	7,075	.....	.....	6	2,825	12	4,250	32,174	70,350	23
73	23,136	14	8,948	59	14,188	.....	.....	82,519	138,193	24
92	46,111	25	14,627	65	31,084	2	400	25,300	85,010	25
22	18,775	13	10,600	9	3,175	.....	.....	13,078	36,150	26
65	30,970	11	7,227	41	20,531	13	3,212	15,192	52,634	27
47	30,320	8	7,230	39	23,090	.....	.....	63,367	108,120	28
72	34,325	26	16,645	46	17,680	.....	.....	45,781	107,450	29
139	75,823	23	20,445	90	39,058	26	15,720	35,524	150,240	30
31	18,879	7	6,050	24	12,229	.....	.....	40,960	64,011	31
43	20,423	10	6,528	22	9,625	11	4,280	23,131	50,145	32
107	37,593	13	13,397	94	24,196	.....	.....	328,129	409,473	33
27	15,894	9	6,375	18	9,519	.....	.....	16,498	30,900	34
386	185,241	53	50,410	59	19,981	274	114,850	163,571	475,607	35
22	13,901	8	5,925	14	7,976	.....	.....	4,284	27,915	36
1,493	497,206	123	123,968	803	322,269	507	50,963	1,593,470	2,727,604	37

furniture, factory product, 1; gas, illuminating and heating, 1; hairwork, 2; hats and caps, not including wool hats, 1; jewelry, 1; leather, tanned and curried, 1; liquors, vinous, 2; locks and gunsmithing, 1; looking-glass and picture frames, 1; mineral and soda waters, 1; models and patterns, 2; monuments and tombstones, 2; musical instruments, pianos and materials, 1; paints, 1; patent medicines and compounds, 2; paving and paving materials, 2; pickles, preserves, and sauces, 2; pumps, not including steam pumps, 1; soap and candles, 1; stencils and brands, 1; sugar and molasses, refining, 1; trunks and valises, 1; washing machines and clothes wringers, 1; wood, turned and carved, 2; woolen goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DAYTON, OHIO.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
		Value of hired prop-erty.	Direct investment.	
1 All industries.....	937	\$1,734,339	\$13,469,964	\$1,450,655
2 Agricultural implements.....	8	32,588	1,835,826	202,494
3 Awnings, tents, and sails.....	3	7,250	5,198	958
4 Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	31	29,275	34,630	3,444
5 Bookbinding and blank-book making. (See also Printing and publishing.)	4	34,950	60,950	5,546
6 Boots and shoes, custom work and repairing.....	79	40,775	20,240	4,958
7 Bottling. (See also Liquors, malt; Mineral and soda waters.).....	3	4,855	167	
8 Brass castings and brass finishing.....	3	1,200	295,176	25,841
9 Bread and other bakery products.....	30	55,270	140,422	13,267
10 Brick and tile. (See also Clay and pottery products.).....	4	12,410	5,000	2,714
11 Brooms and brushes.....	3	4,275	2,780	494
12 Carpentry.....	58	12,100	144,935	60,202
13 Carpets, rag.....	9	4,200	5,802	458
14 Carriage and wagon materials.....	3	1,000	261,303	24,729
15 Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	13	65,224	135,030	9,478
16 Clothing, men's, custom work and repairing.....	38	155,350	113,772	10,251
17 Clothing, women's, dressmaking.....	95	97,400	28,945	9,605
18 Coffee and spice, roasting and grinding.....	4	77,067	140,050	13,203
19 Confectionery.....	13	48,000	27,832	7,456
20 Cooperage.....	11	1,750	12,714	1,010
21 Cutlery and edge tools. (See also Files; Saws; Tools, not elsewhere specified.).....	3	5,600	58,445	5,885
22 Dentistry, mechanical.....	18	26,100	5,247	2,225
23 Dyeing and cleaning.....	5	4,000	8,000	741
24 Flouring and grist mill products.....	5	9,450	202,000	21,811
25 Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	26	80,060	1,545,898	102,546
26 Furniture, cabinetmaking, repairing and upholstering.....	11	10,700	18,047	2,555
27 Furniture, factory product. (See also Furniture, chairs).....	4	16,650	103,134	6,891
28 Hosiery and knit goods. (See also Cotton goods.).....	3	2,400	1,242	370
29 Ironwork, architectural and ornamental. (See also Foundry and machine shop products.).....	7	28,800	227,045	9,985
30 Liquors, malt. (See also Bottling.).....	9	47,250	802,125	140,272
31 Lock and gun smithing.....	5	4,000	1,505	421
32 Looking-glass and picture frames.....	5	4,750	3,042	722
33 Lumber and other mill products from logs or bolts.....	5	30,000	367,758	40,147
34 Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.).....	8	10,355	423,819	22,104
35 Malt. (See also Liquors, malt.).....	3	1,750	74,100	844
36 Marble and stone work. (See also Monuments and tombstones.).....	5	4,275	57,960	3,239
37 Masonry, brick and stone. (See also Plastering and stuccowork.).....	32	14,780	30,445	4,189
38 Millinery, custom work.....	20	66,250	34,042	8,020
39 Models and patterns.....	3	2,500	3,040	307
40 Monuments and tombstones. (See also Marble and stone work.).....	5	8,500	27,445	2,912
41 Painting and paper hanging.....	58	28,500	16,917	5,257
42 Paper.....	4	5,000	658,479	93,201
43 Paving and paving materials.....	3	4,910	16,075	927
44 Photography.....	11	23,665	15,548	3,529
45 Plastering and stuccowork. (See also Masonry, brick and stone.).....	13	2,060	7,085	1,073
46 Plumbing and gas fitting.....	11	53,300	99,015	8,901
47 Printing and publishing, book and job. (See also Bookbinding and blank-book making.).....	13	82,440	192,020	19,887
48 Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.).....	11	35,355	425,863	93,369
49 Pumps, not including steam pumps.....	9	5,540	12,320	1,065
50 Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.).....	11	15,070	37,255	2,022
51 Saddlery and harness.....	16	47,000	107,283	10,934
52 Sausage. (See also Slaughtering and meat packing, wholesale.).....	4	11,700	326	
53 Shirts. (See also Furnishing goods, men's.).....	4	23,800	54,406	3,316
54 Slaughtering and meat packing, wholesale. (See also Sausage.).....	4	63,750	3,842	
55 Soap and candles.....	4	4,210	16,000	1,100
56 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.).....	21	24,290	21,395	3,777

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DAYTON, OHIO.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
12,047	\$5,900,719	1,433	\$1,163,330	8,512	\$3,932,882	2,102	\$804,501	\$11,686,149	\$22,446,572
774	344,300	43	53,146	718	282,244	13	9,000	473,470	1,352,150
17	7,204	4	2,200	13	5,004			20,200	20,200
88	41,401	36	21,360	40	19,041	6	1,000	25,704	80,331
81	37,213	11	11,750	70	25,463			92,210	160,000
112	44,790	76	36,420	28	11,420	8	2,050	19,289	80,603
7	2,800	4	1,750	3	1,050			15,402	24,900
158	81,710	8	9,200	47	25,470	103	47,040	69,765	231,100
186	86,192	51	32,735	134	53,257	1	200	253,072	443,448
53	13,500	4	2,000	4	800	45	10,700	5,275	27,000
19	7,570	5	3,400	4	1,050	10	3,120	11,499	22,900
458	270,704	63	58,270	304	218,134	1	300	705,282	1,240,850
13	3,725	0	2,950	2	575	2	200	4,187	9,620
97	53,112	6	10,200	84	40,256	7	2,050	52,115	100,400
176	96,222	22	16,400	154	70,822			102,074	326,000
373	167,080	50	40,190	40	26,592	283	100,208	168,552	405,942
297	86,062	90	42,677	104	42,085	4	700	204,082	340,525
81	41,419	18	15,900	20	8,394	43	17,125	804,238	921,500
51	20,668	10	13,000	32	13,063			42,240	98,870
63	23,442	13	5,886	25	8,800	25	8,750	23,339	56,016
29	16,840	3	2,900	26	13,940			20,522	62,543
23	11,925	18	9,875	4	1,900	1	150	7,804	29,475
22	7,988	7	3,906	15	4,082			4,116	14,300
87	62,466	24	26,020	63	36,446			1,035,766	1,185,250
1,212	773,294	102	125,036	1,083	634,366	27	13,802	680,478	1,843,278
60	28,954	15	8,110	33	16,492	12	4,352	71,427	115,305
180	82,853	15	12,750	105	70,103			60,889	183,361
10	1,950	1	200	9	1,750			5,475	11,300
187	91,857	15	12,500	172	70,357			108,339	322,650
158	123,019	30	36,675	128	86,344			248,940	610,148
7	3,464	5	2,300	2	1,164			1,173	6,500
10	3,202	3	1,400	7	1,892			5,432	12,050
275	124,146	15	14,414	245	101,514	15	8,218	152,410	302,291
410	218,584	27	24,472	383	194,002			205,195	574,132
17	4,975	5	2,230	12	2,745			17,465	24,900
74	52,400	8	6,600	63	44,450	3	1,350	46,750	116,500
320	103,374	37	33,784	283	150,500			290,196	547,046
85	25,615	20	13,000	55	11,500	1	125	43,109	95,850
7	4,400	3	2,400	4	2,000			899	7,300
34	20,854	9	7,944	15	8,410	10	4,500	43,445	78,050
285	131,436	66	42,891	167	88,495	2	50	97,057	281,650
239	118,620	13	20,001	214	96,297	12	2,242	364,706	785,158
48	21,720	6	5,200	42	10,520			29,188	60,600
36	17,644	11	8,050	23	8,444	2	1,150	13,099	42,500
76	45,325	16	12,325	60	33,000			38,182	95,500
160	87,034	10	16,900	150	70,134			187,581	312,900
207	86,918	23	22,800	183	64,018	1	100	206,881	363,398
297	150,395	36	28,566	254	126,325	7	4,504	114,391	427,211
24	10,550	9	5,400	14	5,100	1	50	5,623	21,330
54	32,400	15	11,550	39	20,850			36,074	80,820
120	53,905	25	18,180	95	35,725			68,750	165,300
17	9,004	4	3,860	13	5,644			32,845	48,500
147	40,802	10	9,200	25	5,868	114	25,734	81,807	148,210
57	38,200	15	14,500	42	23,700			265,436	336,628
16	8,750	6	4,900	10	3,850			20,662	41,280
74	30,732	24	14,768	50	21,064			37,317	89,880

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DAYTON, OHIO—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellaneous expenses.
			Value of hired prop-erty.	Direct investment.	
57	Tobacco, chewing, smoking, and snuff.....	3	\$20,000	\$73,583	\$54,082
58	Tobacco, cigars and cigarettes	43	55,320	212,280	122,302
59	Watch, clock, and jewelry repairing	19	21,175	9,968	2,455
60	All other industries (a)	69	205,070	3,985,535	200,110

a Embraces bags, paper, 2; baking and yeast powders, 2; baskets and rattan and willow ware, 1; blacking, 1; boxes, cigar, 2; boxes fancy and paper, 2; boxes, wooden packing, 1; bridges, 1; cars and general shop construction and repairs by steam railroad companies, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 1; clay and pottery products, 1; clothing, men's, factory product, 2; cotton goods, 1; druggists' preparations, not including prescriptions, 1; electroplating, 1; engraving and diesinking, 1; engraving, wood, 2; fancy articles, not elsewhere specified, 2; files, 1; fax, dressed, 2; furnishing goods, men's, 1; furniture, chairs, 1; gas, illuminating and heating, 1; hairwork, 1; hats and caps, not including wool hats, 1; house furnishing goods,

DENVER, COLO.

1	All industries.....	762	4,759,912	16,811,808	1,340,808
2	Awnings, tents, and sails	3	25,400	43,780	4,237
3	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	66	160,000	148,190	28,105
4	Bookbinding and blank-book making. (See also Printing and publishing.)	5	58,800	68,535	7,892
5	Boots and shoes, custom work and repairing	87	217,020	112,975	29,442
6	Boxes, wooden packing. (See also Lumber, planing mill products, including sash, doors, and blinds.)	3	7,210	11,450	1,312
7	Bread and other bakery products.....	49	270,100	306,543	47,264
8	Brick and tile. (See also Clay and pottery products.).....	25	532,687	1,120,750	73,075
9	Carpentering	45	90,370	532,450	28,477
10	Carpets, rug	6	6,520	8,484	925
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	17	102,770	523,882	24,751
12	Cars and general shop construction and repairs by steam railroad companies.....	4	.....	1,438,182	.....
13	Clay and pottery products. (See also Brick and tile.)	5	37,500	182,825	8,910
14	Clothing, men's, custom work and repairing.....	61	880,410	251,498	50,561
15	Clothing, women's, dressmaking.....	9	58,150	58,978	8,271
16	Clothing, women's, factory product.....	4	184,220	235,004	41,051
17	Confectionery.....	13	200,000	140,300	21,172
18	Dentistry, mechanical	15	4,200	21,165	10,238
19	Dyeing and cleaning	4	15,410	36,135	2,284
20	Flouring and grist mill products.....	5	3,350	969,000	43,110
21	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	17	68,450	1,255,211	58,084
22	Fruits and vegetables, canning and preserving. (See also Food preparations; Pickles, preserves, and sauces.)	3	2,000	158,000	7,467
23	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	16	157,000	90,890	21,182
24	Furniture, factory product. (See also Furniture, chairs.).....	5	105,330	169,450	17,310
25	Hand stamps	4	26,730	18,250	3,668
26	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	11	56,000	134,750	12,927
27	Jewelry. (See also Watch, clock, and jewelry repairing.)	4	61,300	86,075	9,030
28	Lime and cement	5	.....	171,750	3,788
29	Lock and gun smithing	3	8,730	3,525	1,388
30	Looking-glass and picture frames	3	15,300	39,900	1,555
31	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	8	72,415	1,894,900	76,314
32	Marble and stone work. (See also Monuments and tombstones.).....	4	6,500	98,510	1,863
33	Millinery; custom work	19	164,300	97,010	28,093
34	Mineral and soda waters. (See also Bottling.)	4	16,550	41,495	3,232
35	Paints. (See also Chemicals.)	4	63,370	70,800	9,850
36	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	25	113,800	247,720	23,913
37	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	15	143,500	473,865	127,533
38	Saddlery and harness	10	124,040	239,677	25,636
39	Slaughtering and meat packing, wholesale	3	22,000	200,150	23,946
40	Tinsmithing, copper-smithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	24	163,180	177,181	24,878
41	Tobacco, cigars and cigarettes	21	113,750	204,011	43,989

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DAYTON, OHIO—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used,	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
73	\$21,481	6	\$0,000	60	\$14,015	7	\$1,460	\$66,364	\$106,242 57		
890	304,616	47	33,372	303	111,522	549	159,722	330,756	851,303 58		
43	22,310	22	10,360	21	11,950			13,219	44,850 59		
2,905	1,360,478	148	153,983	1,970	833,614	787	372,881	3,104,687	5,869,709 60		

not elsewhere specified, 2; iron and steel, forgings, 1; leather, tanned and curried, 1; mantels, slate, marble, and marbleized, 1; mineral and soda waters, 1; mucilage and paste, 1; musical instruments and materials, not specified, 1; oil, lard, 1; oil, linseed, 2; paints, 2; paper goods, not elsewhere specified, 1; patent medicines and compounds, 2; photolithographing and engraving, 1; saws, 2; screws, wood, 1; sporting goods, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; stencils and brands, 2; tools, not elsewhere specified, 2; trunks and valises, 2; umbrellas and canes, 1; varnish, 1; washing machines and clothes wringers, 1; whips, 1; wood, turned and carved, 1.

DENVER, COLO.

10,613	8,377,520	1,330	1,723,935	8,876	6,381,080	407	272,505	14,216,540	29,240,747	1
50	32,686	6	7,415	44	25,271			80,758	141,471	2
215	203,349	76	87,530	187	115,103	2	716	121,671	407,889	3
93	53,025	10	11,820	83	41,205			39,793	140,010	4
210	167,900	89	84,160	101	72,542	20	11,288	89,505	327,271	5
19	14,338	4	4,100	15	10,178			11,112	33,600	6
320	240,522	73	80,592	212	130,880	35	11,050	539,719	966,206	7
1,003	539,205	46	42,972	979	409,717	38	26,516	165,837	1,083,040	8
402	406,030	58	75,405	434	390,574			394,003	1,070,026	9
8	3,583	3	1,565	5	2,018			4,406	12,105	10
311	279,338	40	61,180	271	218,158			251,194	668,305	11
816	634,814	15	38,626	801	506,160			690,230	1,325,019	12
102	70,000	15	24,000	87	54,040			89,575	102,290	13
401	329,854	71	83,421	215	167,435	115	78,798	257,617	734,225	14
35	52,582	8	9,598	77	42,984			58,006	147,786	15
350	169,066	8	8,320	342	101,646			200,162	642,780	16
184	121,387	37	43,684	147	77,703			250,800	546,260	17
22	31,116	14	25,084	8	6,032			9,657	73,050	18
23	19,430	6	7,180	17	12,250			6,101	34,850	19
101	87,496	15	24,084	86	63,412			1,581,024	1,945,600	20
540	450,194	44	66,486	496	368,708			433,803	1,109,519	21
110	60,730	11	14,800	80	45,930			90,420	207,424	22
98	85,970	24	27,676	74	58,294			55,649	107,311	23
115	106,684	9	18,000	106	93,684			122,513	307,761	24
15	12,260	4	4,770	11	7,484			13,173	45,700	25
158	120,151	17	28,700	141	100,261			124,844	312,660	26
20	29,555	7	9,162	22	20,393			46,912	116,400	27
96	69,933	7	9,675	89	60,253			40,725	146,530	28
7	7,332	3	4,160	4	3,172			2,005	13,050	29
18	16,630	7	10,020	10	6,250	1	360	14,115	35,000	30
995	755,622	66	109,880	920	645,742			2,463,760	4,017,362	31
131	150,072	10	12,304	120	136,968	1	800	111,925	300,003	32
121	67,916	38	27,928	88	39,988			105,783	228,250	33
35	26,794	8	8,250	27	18,544			23,344	69,425	34
44	34,828	11	11,690	33	28,138			382,948	489,620	35
200	165,558	37	53,108	162	112,450			133,877	406,717	36
598	819,235	78	99,666	486	485,197	34	34,372	249,997	1,285,266	37
135	116,525	33	41,016	98	73,184	4	2,375	96,909	308,669	38
68	58,242	9	13,020	59	44,922			1,415,849	1,025,711	39
169	130,555	39	47,829	120	52,726			175,274	389,350	40
255	189,928	31	36,128	169	109,452	55	44,348	150,870	441,230	41

COMPENDIUM OF THE ELEVENTH CENSUS: 1890.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DENVER, COLO.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
		Value of bired prop- erty.	Direct investment.	
42 Trunks and valises. (See also Leather goods.)	3	\$33,300	\$36,550	\$5,828
43 Watch, clock, and jewelry repairing. (See also Jewelry.)	27	134,050	59,015	10,708
44 Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	3	9,750	5,905	1,357
45 All other industries (a)	86	630,230	4,026,057	361,482

a Embraces artificial feathers and flowers, 1; baking and yeast powders, 2; baskets and rattan and willow ware, 1; bicycle and tricycle repairing, 2; boot and shoe uppers, 2; bottling, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 1; brooms and brushes 2; carriage and wagon materials, 1; chemicals, 1; clothing, men's, factory product, 2; electroplating, 1; engraving and diesinking, 2; fancy articles, not elsewhere specified, 1; food preparations, 2; fur goods, 2; furnishing goods, men's, 1; furniture, chairs, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 2; grease and tallow, 2; hairwork, 2; hosiery and knit goods, 2; ice, artificial, 1; instruments, professional and scientific, 1; kaolin and other earth grinding, 2; kindling wood, 1; lead, bar, pipe, and sheet, 1; leather goods, 1; leather,

DES MOINES, IOWA.

1 All industries.....	330	1,269,963	3,877,140	442,162
2 Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	29	41,300	38,637	5,902
3 Boots and shoes, custom work and repairing.....	10	12,610	2,425	1,302
4 Bread and other bakery products.....	15	73,225	125,193	15,710
5 Brick and tile. (See also Clay and pottery products.)	8	22,400	47,370	3,092
6 Brooms and brushes	3	11,335	18,775	1,815
7 Carpentry	5	8,715	26,400	627
8 Cars and general shop construction and repairs by steam railroad companies.	3	.....	185,579	.....
9 Clay and pottery products. (See also Brick and tile.)	4	.....	162,258	17,149
10 Clothing, men's, custom work and repairing.....	18	85,000	92,435	11,386
11 Clothing, women's, dressmaking	6	15,000	1,365	1,451
12 Confectionery	3	27,640	45,550	2,814
13 Druggists' preparations, not including prescriptions. (See also Patent medicines and compounds.)	4	6,500	19,650	1,019
14 Flouring and grist mill products	6	12,000	66,932	3,740
15 Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	13	16,700	316,320	12,936
16 Hand stamps	3	4,100	6,975	417
17 Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	3	4,825	71,600	2,455
18 Lumber, planing mill products, including sash, doors, and blinds. (See also Lumber and other mill products from logs or bolts; Wood, turned and carved.)	5	25,010	92,700	6,405
19 Marble and stone work. (See also Monuments and tombstones.)	3	18,190	3,550	3,246
20 Masonry, brick and stone.....	3	1,454	15,975	1,696
21 Millinery, custom work	13	80,500	59,000	7,540
22 Mineral and soda waters.....	3	5,000	38,900	1,874
23 Painting and paper hanging.....	6	19,184	23,680	2,746
24 Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	7	25,340	117,542	26,832
25 Painting and paving materials	4	5,800	19,050	3,345
26 Photography	6	22,675	10,500	2,246
27 Plumbing and gas fitting	8	22,800	44,450	3,851
28 Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	13	65,775	206,789	14,155
29 Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	21	143,000	325,623	108,448
30 Saddlery and harness.....	13	57,600	73,205	6,481
31 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	10	28,200	34,211	3,205
32 Tobacco, cigars and cigarettes.....	10	21,600	76,354	11,326
33 All other industries (a)	72	396,475	1,508,087	154,881

a Embraces agricultural implements, 2; awnings, tents, and sails, 1; baking and yeast powders, 2; bookbinding and blank-book making, 2; boxes, fancy and paper, 1; carriages and wagons, including custom work and repairing, 2; cheese and butter, urban dairy product, 1; coffee and spice, roasting and grinding, 1; cooperage, 2; cotton goods, 2; dentists' materials, 1; dyeing and cleaning, 2; electroplating, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; food preparations, 1; furnishing goods, men's, 1; furniture, cabinetmaking, repairing and upholstering, 2; furniture, factory product, 1; gloves and mittens, 1; grease and tallow, 2; hairwork, 2; hardware, 1; hats and caps, not including wool hats, 2; hosiery and knit goods, 1; house furnishing goods, not elsewhere specified, 1; jewelry, 2; lithographing and engraving, 1; looking-glass and

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DENVER, COLO.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
26	\$24,422	4	\$9,660	20	\$13,612	2	\$1,150	\$14,062	\$71,000 42		
81	79,718	35	39,685	44	39,013	2	1,020	27,721	145,070 43		
13	12,844	4	4,576	9	8,208	.....	.....	7,030	24,800 44
1,701	1,451,302	200	288,035	1,403	1,102,655	98	50,712	3,023,086	6,454,456 46		

tained and curried, 1; liquors, malt, 2; lithographing and engraving, 2; lumber and other mill products from logs or bolts, 1; masonry, brick and stone, 1; mattresses and spring beds, 2; models and patterns, 1; monuments and tombstones, 2; oil, lubricating, 1; oleomargarine, 1; optical goods, 2; painting and paper hanging, 1; patent medicines and compounds, 1; paving and paving materials, 2; pickles, preserves, and sauces, 2; pipes, tobacco, 1; plastering and stucco-work, 1; plumbers' supplies, 1; printing materials, 1; roofing and roofing materials, 1; scales and balances, 1; shirts, 1; soap and candles, 2; stamped ware, 1; steam fittings and heating apparatus, 1; stencils and brands, 2; stereotyping and electrotyping, 2; taxidermy, 1; tools, not elsewhere specified, 2; watch cases, 1; wirework, including wire rope and cable, 1.

DES MOINES, IOWA.

3,935	2,068,359	515	437,252	3,267	1,582,728	153	48,370	4,408,377	7,931,272	1
97	59,363	20	23,560	68	35,803	.....	.....	27,983	100,916	2
20	12,336	4	2,680	16	*9,656	.....	.....	8,253	28,840	3
147	81,012	37	32,345	109	48,207	1	400	181,517	345,095	4
123	44,211	9	6,175	114	38,036	.....	.....	12,555	74,000	5
50	18,894	4	3,380	46	15,514	.....	.....	36,275	68,770	6
68	36,500	6	5,150	62	31,350	.....	.....	56,635	105,300	7
322	182,757	4	4,580	318	178,177	.....	.....	107,808	201,000	8
94	49,552	9	8,376	82	40,240	3	936	20,447	101,094	9
166	105,394	20	19,360	145	85,584	1	500	125,184	271,023	10
27	8,678	6	2,808	10	4,570	5	1,300	8,220	10,750	11
73	25,520	8	6,250	65	10,270	.....	.....	65,298	105,940	12
15	7,814	5	3,164	10	4,050	.....	.....	14,075	88,500	13
24	14,916	8	6,170	16	8,746	.....	.....	122,013	153,910	14
207	160,931	30	28,852	187	119,879	50	18,200	106,012	450,425	15
8	5,730	3	2,730	5	3,000	.....	.....	3,026	9,200	16
42	23,760	7	6,900	35	10,860	.....	.....	25,370	72,550	17
87	56,540	7	6,720	80	49,820	.....	.....	70,030	161,500	18
22	14,256	2	2,000	20	12,256	.....	.....	30,440	61,800	19
127	89,123	6	8,100	121	81,023	.....	.....	146,978	276,000	20
84	28,406	21	10,060	63	18,340	.....	.....	64,300	114,817	21
27	13,860	5	4,140	22	9,720	.....	.....	8,325	32,650	22
82	47,890	9	7,350	73	40,010	.....	.....	45,058	100,875	23
72	20,524	9	7,305	63	22,219	.....	.....	59,700	226,318	24
143	59,725	5	3,360	138	50,365	.....	.....	115,206	194,085	25
26	16,375	10	7,350	16	9,025	.....	.....	8,205	29,510	26
72	48,906	10	8,873	62	40,033	.....	.....	109,037	181,880	27
203	99,087	22	18,890	176	79,279	5	898	106,117	272,007	28
289	174,649	54	45,713	214	120,720	21	8,210	90,782	443,861	29
84	43,818	23	12,500	60	30,928	1	300	89,768	164,744	30
35	21,405	9	7,080	26	14,325	.....	.....	17,138	46,250	31
68	41,574	15	14,100	53	27,414	.....	.....	28,309	90,540	32
971	440,373	110	111,081	786	311,063	66	17,629	2,406,423	3,288,533	33

picture frames, 1; lumber and other mill products from logs or bolts, 1; mattresses and spring beds, 1; models and patterns, 2; monuments and tombstones, 2; oil, linseed, 1; paints, 1; paper goods, not elsewhere specified, 1; photolithographing and engraving, 1; pickles, preserves, and sauces, 1; pumps, not including steam pumps, 1; roofing and roofing materials, 2; scales and balances, 1; shirts, 2; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; steam fittings and heating apparatus, 2; surgical appliances, 1; trunks and valises, 2; vinegar and cider, 1; washing machines and clothes wringers, 2; wood, turned and carved, 1; woolen goods, 1.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DETROIT, MICH.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish-ments reporting.	CAPITAL.		Miscellane-ous expenses.
			Value of hired prop-erty.	Direct investment.	
1	All industries (a)	1,740	\$7,854,178	\$45,041,167	\$5,947,307
2	Awnings, tents, and sails.	4	34,900	21,758	4,470
3	Baking and yeast powders.	4	18,000	63,235	6,773
4	Baskets and rattan and willow ware.	7	12,100	11,940	2,282
5	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	84	186,600	153,124	16,702
6	Bookbinding and blank-book making. (See also Printing and publishing.)	10	116,000	170,720	20,985
7	Boot and shoe uppers.	3	12,000	10,640	1,526
8	Boots and shoes, custom work and repairing.	119	130,025	137,198	17,688
9	Boots and shoes, factory product.	7	284,700	741,207	73,946
10	Bottling. (See also Liquors, malt; Mineral and soda waters.)	4	9,880	4,270	1,690
11	Boxes, cigar	4	10,265	70,720	0,369
12	Boxes, fancy and paper.	4	45,250	41,861	6,162
13	Brass castings and brass finishing. (See also Plumbers' supplies.)	12	51,885	770,015	73,350
14	Bread and other bakery products.	75	261,650	447,217	46,694
15	Bridges.	3	1,740	440,000	6,074
16	Brooms and brushes.	10	14,200	31,710	2,032
17	Carpentering.	78	71,000	600,228	150,643
18	Carpets, rag.	13	11,898	13,300	1,011
19	Carriages and wagon materials.	4	15,750	21,740	1,069
20	Carriages and sleds, children's.	3	3,000	8,275	425
21	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	33	83,400	631,737	26,060
22	Cars, steam railroad, not including operations of railroad companies.	4	-----	3,628,736	205,711
23	Chemicals. (See also Paints; Varnish.)	13	114,120	2,011,145	394,434
24	Clay and pottery products.	6	5,350	85,025	4,818
25	Clothing, men's, custom work and repairing.	128	595,180	580,998	120,397
26	Clothing, men's, factory product.	9	302,595	245,830	220,850
27	Clothing, women's, dressmaking.	14	67,200	100,674	12,204
28	Coffins, burial cases, and undertakers' goods.	3	35,000	178,256	23,328
29	Confectionery.	23	288,650	383,113	102,339
30	Cooperage.	9	1,720	177,102	5,810
31	Corsets.	4	50,875	138,100	10,001
32	Dentistry, mechanical.	18	20,200	24,085	8,220
33	Dyeing and cleaning.	5	17,535	33,600	1,775
34	Engraving, wood.	4	10,365	6,510	5,362
35	Flavoring extracts.	4	7,050	11,875	3,082
36	Flouring and grist mill products.	9	78,000	304,925	30,065
37	Food preparations. (See also Fish, canning and preserving; Fruits and vegetables, canning and preserving.)	3	5,000	30,894	2,551
38	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	57	244,700	6,424,940	312,576
39	Fur goods. (See also Hats and caps, not including wool hats.)	6	84,225	86,940	27,352
40	Furnishing goods, men's. (See also Shirts.)	4	48,325	201,100	27,147
41	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	26	83,000	52,646	9,000
42	Furniture, factory product. (See also Furniture, chairs.)	16	443,000	319,883	28,237
43	Glass, cutting, staining, and ornamenting.	3	21,000	20,500	2,983
44	Hats and caps, not including wool hats. (See also Fur goods.)	5	17,000	4,310	1,400
45	Iron and steel.	7	-----	2,143,352	110,257
46	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	6	31,000	140,810	9,947
47	Leather, tanned and curried.	5	33,200	538,150	26,245
48	Liquors, malt. (See also Bottling.)	24	81,025	2,009,587	382,807
49	Lock and gun smithing.	7	10,645	8,050	1,187
50	Looking-glass and picture frames.	11	52,525	182,998	20,106
51	Lumber and other mill products from logs or bolts.	9	132,500	1,164,792	69,326
52	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Wood, turned and carved.)	31	188,000	1,429,729	73,000
53	Malt. (See also Liquors, malt.)	5	81,000	362,244	21,731
54	Marble and stone work. (See also Monuments and tombstones.)	15	41,700	280,002	9,216
55	Masonry, brick and stone. (See also Plastering and stuccowork.)	35	22,565	242,113	14,628
56	Millinery, custom work.	9	16,965	24,300	1,907

^aExcludes returns from manufacturers of "Timber products, not manufactured at mill" having offices in Detroit. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly locate its operations within the limits of a county or municipality. The totals of such reports obtained in Detroit are as

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DETROIT, MICH.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
38,178	\$18,900,300	3,643	\$3,410,138	28,207	\$12,758,730	6,328	\$2,731,441	\$41,360,058	\$77,351,546
55	27,076	9	5,427	46	21,649	4	-----	45,482	96,620
51	31,427	20	21,087	27	9,404	4	-----	83,607	148,730
50	20,920	10	5,048	14	5,732	26	9,540	9,930	38,000
260	175,631	93	70,820	166	104,561	1	256	63,091	301,211
158	56,745	11	9,520	132	44,105	15	3,120	131,700	256,683
14	8,834	4	3,532	10	5,302	51	-----	10,219	22,390
210	100,513	109	52,602	56	24,408	51	23,505	56,487	188,743
1,027	476,424	53	78,430	182	70,202	792	318,792	915,292	1,611,700
14	6,894	6	3,480	8	3,414	-----	1,500	14,410	26,932
160	38,234	5	5,524	85	28,182	70	4,528	50,260	133,880
165	30,941	6	5,624	153	33,225	6	1,092	75,950	137,740
603	336,148	47	56,368	555	278,740	1	1,010	347,505	867,733
510	275,221	118	91,976	382	181,745	10	1,500	887,303	1,400,524
275	181,812	13	28,020	202	153,792	-----	-----	331,000	581,500
81	31,006	11	6,201	38	11,207	32	13,598	37,973	77,812
972	559,883	106	100,073	898	446,810	28	13,000	830,568	1,736,873
22	8,585	13	5,985	5	1,175	4	1,425	4,584	17,180
21	12,807	4	3,643	17	8,724	-----	-----	59,066	80,217
20	11,604	5	4,200	3	728	12	6,586	9,000	28,548
428	241,982	61	52,002	339	175,150	28	13,930	214,567	577,482
3,615	1,004,440	77	103,748	3,301	1,342,405	287	158,287	7,350,974	10,278,281
1,281	615,340	105	172,808	841	327,472	275	115,000	1,079,074	2,968,778
68	28,808	7	5,340	62	18,856	9	4,612	11,801	59,052
1,030	576,264	146	122,580	470	203,424	414	255,260	535,059	1,448,637
291	85,021	10	17,910	168	56,962	43	10,149	819,503	1,269,327
263	89,180	16	14,529	247	74,051	-----	-----	137,007	261,830
112	55,286	13	13,500	99	41,786	-----	-----	131,638	244,147
452	186,437	61	60,677	385	124,250	6	1,510	597,512	1,130,648
150	79,262	13	9,965	42	18,059	95	50,638	136,313	238,400
241	87,800	3	1,400	220	83,620	9	2,780	155,025	299,050
28	15,400	17	9,584	11	5,816	-----	-----	11,976	41,550
33	17,517	8	7,402	25	10,055	-----	-----	5,198	29,066
20	13,432	5	5,092	15	7,440	-----	-----	1,321	28,157
14	5,784	4	2,140	10	3,044	-----	-----	26,732	45,400
110	65,801	28	18,588	87	47,303	-----	-----	1,348,976	1,613,063
40	14,012	14	6,317	35	7,695	-----	-----	18,955	50,300
4,823	2,670,062	278	326,317	3,488	1,752,078	1,057	581,667	3,350,200	7,631,103
164	64,750	23	16,236	181	45,714	10	2,800	108,379	210,000
202	95,810	31	16,708	261	79,108	-----	-----	227,420	434,500
118	46,811	28	17,746	82	28,173	3	892	66,680	140,023
609	355,125	60	52,820	564	279,785	45	22,520	287,947	792,656
38	28,180	6	7,140	32	21,040	-----	-----	16,700	53,000
28	12,722	6	3,940	20	8,082	2	700	7,253	26,750
609	445,736	28	54,729	671	391,007	-----	-----	1,649,580	2,432,493
138	85,423	24	20,402	114	65,021	-----	-----	122,643	264,815
129	66,327	11	11,860	118	54,467	-----	-----	453,748	643,440
409	304,197	89	97,102	320	207,095	-----	-----	506,145	1,506,799
13	8,442	9	6,192	4	2,250	-----	-----	1,231	12,735
273	108,603	24	21,850	245	85,658	4	1,095	87,074	255,813
828	275,570	28	25,330	738	238,034	62	17,200	437,740	897,984
1,227	631,735	83	91,967	1,114	523,906	30	15,862	1,310,248	2,281,102
92	53,099	14	12,839	78	40,260	-----	-----	440,844	596,019
368	268,458	29	27,616	339	240,842	-----	-----	216,374	550,818
1,125	658,587	42	44,484	1,083	614,103	-----	-----	603,706	1,385,341
28	7,074	9	2,741	16	3,250	3	1,074	12,636	25,050

follows: number of establishments reporting, 3; capital, direct investment, \$2,782,001; miscellaneous expenses, \$46,301; average number of employés, 737; total wages, \$367,136; cost of materials used, \$553,157; value of products, \$1,218,020.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DETROIT, MICH.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.
		Value of hired property.	Direct investment.	
57 Mineral and soda waters. (See also Bottling.)	4	\$5,000	\$50,020	\$7,282
58 Models and patterns	3	3,200	31,272	1,443
59 Monuments and tombstones. (See also Marble and stone work.)	8	8,275	72,350	5,001
60 Optical goods	3	13,500	37,180	2,100
61 Painting and paper hanging	52	178,400	205,771	24,293
62 Paints. (See also Chemicals; Varnish.)	5	47,400	1,044,159	141,038
63 Patent medicines and compounds. (See also Druggists' preparations, not including prescriptions.)	6	13,250	42,320	25,596
64 Paving and paving materials	7	23,100	119,263	11,070
65 Perfumery and cosmetics. (See also Druggists' preparations, not including prescriptions.)	3	57,000	100,750	7,484
66 Photography	28	181,000	98,020	21,876
67 Pickles, preserves, and sauces. (See also Fruits and vegetables, canning and preserving.)	5	95,250	105,377	33,528
68 Plastering and stuccowork. (See also Masonry, brick and stone.)	14	.....	49,885	1,916
69 Plumbers' supplies. (See also Brass castings and brass finishing.)	4	11,475	110,552	1,661
70 Plumbing and gas fitting	58	203,500	363,000	44,042
71 Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	54	391,200	742,825	382,353
72 Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	31	247,000	788,200	357,308
73 Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	13	26,150	174,995	6,907
74 Saddlery and harness	35	116,935	264,007	21,052
75 Shipbuilding	10	201,550	168,131	20,425
76 Slaughtering and meat packing, wholesale. (See also Sausage.)	3	22,150	675,163	37,800
77 Slaughtering, wholesale, not including meat packing. (See also Sausage.)	16	22,200	142,860	8,200
78 Soap and candles. (See also Grease and tallow.)	3	.....	143,300	10,248
79 Steam fittings and heating apparatus. (See also Foundry and machine shop products.)	7	10,335	602,950	66,853
80 Stencils and brands	3	18,350	6,075	2,075
81 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials; Stamped ware.)	40	132,120	234,000	28,735
82 Tobacco, chewing, smoking, and snuff	5	257,500	1,586,400	1,300,858
83 Tobacco, cigars and cigarettes	158	432,285	755,054	206,784
84 Tools, not elsewhere specified. (See also Cutlery and edge tools; Hardware.)	4	3,500	33,146	1,942
85 Trunks and valises	4	72,500	202,478	12,364
86 Watch, clock, and jewelry repairing. (See also Jewelry.)	13	35,945	18,900	4,205
87 Wirework, including wire rope and cable. (See also Mattresses and spring beds.)	6	13,000	109,538	7,570
88 Wood, turned and carved. (See also Lumber, planing mill products, including sash, doors, and blinds.)	15	29,360	39,197	5,355
89 All other industries (a)	108	783,740	7,513,020	350,788

^a Embraces agricultural implements, 1; artificial feathers and flowers, 1; artificial limbs, 2; babbitt metal and solder, 1; bags, paper, 1; bellows, 1; belting and hose, leather, 1; billiard tables and materials, 1; blacking, 1; boxes, wooden packing, 2; brass and copper, rolled, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; celluloid and celluoid goods, 2; china, decorating, 1; cloth, sponging and refinishing, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 2; cordials and sirups, 1; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 1; electroplating, 2; emery wheels, 1; engraving and diesinking, 1; envelopes, 1; files, 2; fish, canning and preserving, 1; fruits and vegetable, canning and preserving, 1; furniture, chairs, 2; furs, dressed, 1; galvanizing, 1; gas, illuminating and heating, 1; gas machines and motors, 1; gloves and mittens, 1; glue, 1; graphite, 1; grease and tallow, 1; hairwork, 1; hand knit goods, 1; hand stamps, 2; hardware,

DUBUQUE, IOWA.

1	All industries	202	609,275	7,010,802	564,377
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	10	7,200	17,090	1,222
3	Boots and shoes, custom work and repairing	16	8,075	13,720	1,421
4	Bread and other bakery products	10	15,700	150,675	11,682
5	Brick and tile	6	3,200	75,575	8,494
6	Carpentering	13	8,500	68,072	4,115
7	Carpets, rag	3	2,800	355	324
8	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	7	8,000	406,250	20,115
9	Clothing, men's, custom work and repairing	14	55,980	71,931	8,833
10	Clothing, women's, dressmaking	3	2,500	700	408
11	Confectionery	4	19,000	54,080	13,971

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DETROIT, MICH.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Piccworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
32	\$10,852	10	\$7,136	22	\$0,716	.....	.....	\$14,933	\$45,750 57
87	30,990	29	15,950	58	15,040	.....	.....	13,260	51,300 58
62	43,770	9	10,244	53	33,520	.....	.....	39,950	105,000 59
67	32,199	14	13,144	48	16,819	5	\$2,236	15,093	49,380 60
603	345,836	80	66,586	518	277,113	5	2,137	240,643	714,078 61
218	128,550	48	61,004	170	67,546	.....	.....	531,285	1,001,669 62
27	12,088	8	7,900	19	4,788	.....	.....	43,548	114,058 63
533	125,431	11	7,005	522	118,336	.....	.....	243,313	477,409 64
85	48,740	11	9,080	74	39,660	.....	.....	117,904	225,000 65
141	83,890	33	32,452	107	50,614	1	800	42,058	164,502 66
91	41,562	12	12,450	70	29,112	.....	.....	160,760	274,968 67
173	112,580	12	11,903	158	98,680	3	2,000	58,665	199,290 68
101	41,033	8	7,179	88	33,084	5	770	144,319	275,972 69
477	287,586	84	73,498	392	193,764	1	324	514,938	913,503 70
606	362,820	90	74,828	546	270,661	30	17,337	241,270	1,136,775 71
822	579,135	120	105,752	495	304,002	207	169,381	262,011	1,526,667 72
156	99,855	26	26,163	130	73,092	.....	.....	260,510	450,452 73
213	112,887	47	33,080	118	57,050	48	22,748	166,934	340,012 74
206	145,414	25	17,625	241	127,789	.....	.....	337,627	523,957 75
277	168,000	51	48,720	226	119,274	.....	.....	2,445,156	2,770,178 76
81	47,814	27	21,800	53	23,814	1	200	508,831	634,246 77
67	31,974	9	8,870	49	18,944	9	4,160	112,113	222,901 78
463	282,045	40	38,518	295	162,555	128	81,872	473,570	1,017,625 79
10	4,515	3	2,540	7	1,975	.....	.....	1,565	8,700 80
258	125,505	52	37,714	196	84,741	10	3,050	198,748	404,958 81
1,362	408,425	62	89,472	743	227,798	547	91,155	2,383,032	4,742,412 82
1,562	697,962	203	136,528	481	189,721	878	371,713	757,297	1,893,479 83
20	18,520	7	5,120	22	13,400	.....	.....	6,738	33,000 84
170	72,180	22	16,750	157	55,430	.....	.....	132,318	280,000 85
50	33,248	11	9,780	39	23,468	.....	.....	28,389	72,688 86
180	75,284	15	11,904	155	57,140	10	6,240	71,700	255,800 87
95	55,396	25	25,066	68	28,906	2	824	20,181	109,660 88
4,510	1,877,964	331	321,004	3,125	1,262,354	1,054	293,706	4,306,283	7,761,962 89

1; hosiery and knit goods, 1; instruments, professional and scientific, 2; iron and steel, bolts, nuts, washers, and rivets, 1; japanning, 1; jewelry, 2; jewelry and instrument cases, 1; kaolin and other earth grinding, 1; lasts, 1; lead, bar, pipe, and sheet, 1; lime and cement, 2; liquors, vinous, 1; lithographing and engraving, 2; matches, 1; mattresses and spring beds, 1; mirrors, 1; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 2; musical 2; pianos and materials, 2; needles and pins, 1; paper goods, not elsewhere specified, 2; pens, gold, 1; photolitho-instruments, piano and materials, 2; printing materials, 1; refrigerators, 1; regalia and society banners and emblems, graphing and engraving, 2; pipes, tobacco, 1; show cases, 1; sporting goods, 2; stamped ware, 1; safes and vaults, 1; sausage, 1; saws, 2; screws, machine, 1; shirts, 2; window shades, 1; surgical appliances, 1; taxidermy, 2; umbrellas and canes, 2; varnish, 2; whips, 1; window stereotyping and electrotyping, 1; woodenware, not elsewhere specified, 2.

DUBUQUE, IOWA.

4,657	2,133,880	459	418,004	8,640	1,517,774	549	198,102	5,934,431	9,804,860	1
30	18,298	.....	.....	30	18,298	.....	.....	6,962	36,800	2
26	11,180	4	2,136	21	8,750	1	300	4,620	19,350	3
106	53,288	12	11,910	94	41,378	.....	.....	132,127	240,826	4
61	21,080	7	3,550	54	17,530	.....	.....	11,400	47,000	5
152	90,673	14	16,320	138	80,353	.....	.....	217,163	351,481	6
4	2,000	3	1,800	295	177,000	1	200	1,150	3,700	7
312	195,850	17	18,850	.....	.....	.....	318,772	674,836	8	
100	58,547	19	16,750	9	5,210	72	34,557	62,600	143,652	9
14	2,750	2	1,050	12	1,700	.....	.....	350	4,280	10
21	14,290	5	5,000	11	6,950	5	2,340	56,284	116,000	11

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DUBUQUE, IOWA—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
12	Cooperage.....	3		\$62,052	\$1,971
13	Dentistry, mechanical.....	5	\$4,300	3,125	517
14	Flouring and grist mill products.....	3		39,000	1,648
15	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	8	3,200	565,575	16,908
16	Furniture, factory product. (See also Furniture, cabinetmaking, repairing and upholstering.)	3	5,000	145,713	7,290
17	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	3	4,800	5,800	1,517
18	Lime and cement.....	3		32,150	4,801
19	Liquors, malt.....	4	78,690	307,030	68,500
20	Lumber and other mill products from logs or bolts.....	3		1,474,171	58,100
21	Lumber, planing mill products, including sash, doors, and blinds. (See also Wood, turned and carved.)	3		682,282	45,389
22	Marble and stone work.....	4	3,000	18,875	1,175
23	Millinery, custom work.....	11	52,000	58,600	6,605
24	Painting and paper hanging.....	9	12,300	16,725	2,611
25	Photography.....	6	20,275	14,400	2,801
26	Plumbing and gas fitting.....	3	22,000	38,200	4,047
27	Printing and publishing, book and job.....	3	7,830	43,335	1,381
28	Printing and publishing, newspapers and periodicals.....	8	22,595	89,500	20,250
29	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	4	2,000	18,000	882
30	Saddlery and harness.....	11	11,300	159,825	13,144
31	Slaughtering and meat packing, wholesale. (See also Sausage.)	5	6,000	210,180	26,806
32	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	6	12,175	13,600	1,711
33	Tobacco, cigars and cigarettes. (See also Tobacco, chewing, smoking, and snuff.)	7	6,200	24,614	6,847
34	Watch, clock, and jewelry repairing.....	10	12,400	5,820	1,553
35	All other industries (a).....	51	101,595	2,043,973	202,382

^a Embraces agricultural implements, 2; boots and shoes, factory product, 2; boxes, fancy and paper, 1; brooms and brushes, 1; cars and general shop construction and repairs by steam railroad companies, 2; clothing, men's, factory product, 2; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 2; cushion, burial cases, and undertakers' goods, 1; dyeing and cleaning, 2; fertilizers, 1; food preparations, 1; furniture, cabinetmaking, repairing and upholstering, 2; gas, illuminating and heating, 1; gloves and mittens, 1; hairwork, 1; hardware, 1; hosiery and knit goods, 1; lightning

DULUTH, MINN.

1	All industries (a).....	278	912,945	5,332,447	412,496
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	17	16,400	16,630	2,281
3	Boots and shoes, custom work and repairing.....	10	15,400	11,195	1,755
4	Bread and other bakery products.....	8	36,000	21,615	4,737
5	Carpentering.....	26	10,200	200,205	20,715
6	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	4	9,090	4,143	1,414
7	Clothing, men's, custom work and repairing.....	18	108,140	95,954	16,430
8	Clothing, women's, dressmaking.....	25	42,940	13,275	4,388
9	Dentistry, mechanical.....	11	35,540	13,586	3,777
10	Foundry and machine shop products. (See also Ironwork, architectural and ornamental.)	3	2,500	86,025	8,255
11	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	5	45,080	4,901	7,736
12	Lumber and other mill products from logs or bolts.....	8		1,357,140	88,719
13	Lumber, planing mill products, including sash, doors, and blinds.....	3	22,200	163,660	6,137
14	Masonry, brick and stone. (See also Plastering and stuccowork.)	20	4,615	323,193	117,011
15	Millinery, custom work.....	7	25,200	14,895	3,550
16	Painting and paper hanging.....	11	25,750	80,440	5,126
17	Photography.....	10	40,420	9,785	4,852
18	Plastering and stuccowork. (See also Masonry, brick and stone.)	3	1,250	22,000	251
19	Plumbing and gas fitting.....	8	85,800	203,830	30,203
20	Printing and publishing, book and job.....	3	23,400	26,600	2,826
21	Printing and publishing, newspapers and periodicals.....	7	57,700	85,756	27,918

^a Excludes returns from manufacturers of "Timber products, not manufactured at mill" having offices in Duluth. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly locate its operations within the limits of a county or municipality. The totals of such reports obtained in Duluth are as

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DUBUQUE, IOWA—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.				
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.							
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.						
45	\$21,421	3	\$2,280	2	\$1,050	40	\$18,091	\$36,510	\$64,401	12			
6	2,050	6	2,050	8	3,582	—	—	970	4,800	13			
12	7,042	4	3,400	—	—	—	—	53,600	66,055	14			
204	107,227	25	30,560	269	136,677	—	—	214,830	491,800	15			
88	35,212	6	4,980	82	30,232	—	—	31,785	80,809	16			
20	16,000	4	5,800	16	10,200	—	—	29,175	48,500	17			
40	17,696	3	2,600	40	14,256	3	840	20,150	46,902	18			
76	54,300	20	18,990	56	35,400	—	—	144,523	317,325	19			
714	229,585	27	23,400	660	193,775	27	12,410	901,631	1,281,930	20			
494	208,946	13	17,000	480	191,196	1	750	508,500	920,000	21			
40	20,694	6	4,050	34	16,644	—	—	18,120	46,500	22			
53	19,675	16	9,600	37	10,075	—	—	80,000	124,800	23			
71	41,680	13	12,200	58	29,480	—	—	17,100	67,700	24			
21	12,030	7	7,560	11	3,545	3	975	7,100	26,500	25			
64	34,144	8	7,948	56	26,196	—	—	83,350	134,000	26			
39	18,062	9	5,972	30	12,090	—	—	12,588	46,100	27			
181	87,203	30	22,566	116	42,322	35	22,405	35,246	154,357	28			
15	8,410	4	2,020	11	5,799	—	—	12,880	26,850	29			
112	56,038	25	20,480	47	17,586	40	17,972	114,460	187,950	30			
230	75,900	12	8,250	218	67,050	—	—	1,610,155	1,758,374	31			
28	14,704	7	4,064	21	10,040	—	—	18,905	40,300	32			
30	17,135	6	4,248	9	2,908	24	9,919	19,005	48,244	33			
18	12,000	9	7,740	9	4,200	—	—	18,635	35,000	34			
1,125	455,025	113	112,130	715	295,552	297	77,343	1,188,119	2,227,738	35			

rods, 1; lock and gun smithing, 2; looking-glass and picture frames, 1; malt, 1; mattresses and spring beds, 1; mineral and soda waters, 2; models and patterns, 1; oil, linseed, 1; paving and paving materials, 2; pickles, preserves, and sauces, 1; plumbers' supplies, 1; sausage, 1; saws, 1; shipbuilding, 1; show cases, 1; soap and candles, 1; steam fittings and heating apparatus, 1; tobacco, chewing, smoking, and snuff, 1; trunks and valises, 1; vinegar and cider, 2; wirework, including wire rope and cable, 1; wood, turned and carved, 1.

DULUTH, MINN.

3,752	2,008,693	437	348,110	3,243	1,602,790	72	57,787	5,435,654	8,811,723	1
41	25,036	21	13,739	20	11,897	—	—	12,856	50,851	2
28	16,028	11	6,116	17	9,912	—	—	6,674	25,277	3
56	29,424	19	8,304	33	19,456	4	1,664	51,362	107,217	4
424	281,521	34	25,646	390	255,875	—	—	561,022	913,864	5
19	14,242	6	5,780	13	8,462	—	—	8,497	25,619	6
124	93,385	24	18,103	96	73,695	4	1,587	84,791	220,038	7
116	30,833	29	10,318	87	20,515	—	—	11,728	60,222	8
18	11,706	11	7,280	7	4,420	—	—	5,736	25,957	9
64	46,703	4	3,020	60	42,783	—	—	75,375	172,500	10
18	13,704	4	2,990	14	10,714	—	—	7,480	34,844	11
502	147,960	24	25,715	473	120,745	5	1,500	426,812	689,503	12
102	60,603	9	10,129	93	50,474	—	—	107,119	289,441	13
257	149,544	27	23,841	220	122,627	10	3,070	365,501	680,635	14
25	12,110	9	5,174	16	6,936	—	—	26,353	47,011	15
97	66,674	19	14,758	78	51,921	—	—	40,069	127,236	16
20	18,757	11	8,999	9	4,758	—	—	7,409	30,354	17
31	20,219	4	3,947	27	10,272	—	—	19,576	45,900	18
120	101,573	27	27,740	102	78,833	—	—	217,865	386,221	19
40	26,943	4	4,940	36	22,008	—	—	9,893	51,400	20
125	114,524	21	20,818	63	49,370	41	44,336	24,655	187,338	21

follows: number of establishments reporting, 11; capital, direct investment, \$1,013,017; miscellaneous expenses, \$77,280; average number of employés, 800; total wages, \$113,826; cost of materials used, \$141,959; value of products, \$393,303.

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
DULUTH, MINN.—Continued.

MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establishments reporting.	CAPITAL.		
		Value of hired property.	Direct investment.	Miscellaneous expenses.
22 Saddlery and harness.	6	\$15,900	\$13,990	\$2,101
23 Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	11	37,480	178,725	13,241
24 Tobacco, cigars and cigarettes.	6	38,780	88,900	13,710
25 Watch, clock, and jewelry repairing.	12	32,350	15,047	3,491
26 All other industries (a).	36	154,150	2,191,752	70,787

a Embraces awnings, tents, and sails, 1; brass castings and brass finishing, 1; brick and tile, 1; cars and general shop construction and repairs by steam railroad companies, 1; confectionery, 1; cooperage, 1; dyeing and cleaning, 1; flouring and grist mill products, 2; fur goods, 2; gas, illuminating and heating, 1; hand stamps, 1; hats and caps, not including wool hats, 1; iron and steel, 1; ironwork, architectural and ornamental, 2; leather, tanned and curried, 1; liquors, malt, 1; lock

ELIZABETH, N. J.

1	All industries	190	459,268	7,785,553	371,214
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	9	11,755	13,665	1,371
3	Boots and shoes, custom work and repairing	7	15,510	12,425	1,893
4	Bread and other bakery products	14	18,500	46,205	5,513
5	Carpentering	17	4,850	94,395	9,136
6	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	7	7,300	55,025	1,801
7	Clothing, men's, custom work and repairing	11	35,335	34,350	4,458
8	Clothing, women's, dressmaking	7	10,205	3,870	1,023
9	Confectionery	3	7,664	4,300	1,334
10	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	10	115,000	1,116,485	34,360
11	Lumber, planing mill products, including sash, doors, and blinds. (See also Wood, turned and carved.)	4	8,500	45,700	2,606
12	Masonry, brick and stone. (See also Plastering and stuccowork.)	5	2,400	26,575	1,315
13	Millinery, custom work	4	8,000	14,950	1,061
14	Monuments and tombstones	3	1,240	4,795	438
15	Painting and paper hanging	7	10,844	42,850	2,191
16	Plumbing and gas fitting	7	10,450	90,873	4,334
17	Printing and publishing, book and job	4	13,875	9,275	2,080
18	Printing and publishing, newspapers and periodicals	5	26,375	39,550	5,853
19	Tobacco, cigars and cigarettes	11	14,125	19,120	5,438
20	All other industries (a)	55	131,280	6,111,145	285,069

a Embraces boot and shoe uppers, 1; bottling, 2; brick and tile, 2; carriage and wagon materials, 2; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; clay and pottery products, 2; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; fertilizers, 1; flouring and grist mill products, 1; furniture, cabinetworking, repairing and upholstering, 1; gas, illuminating and heating, 1; gas stoves, 1; gresco and tallow, 1; hats and caps, not including wool hats, 1; ironwork, architectural and ornamental, 1; leather, morocco, 1; liquors, malt, 2; lock and gun smithing, 1; mineral and soda waters, 1; oil, lard, 1; oil, lubricating, 1; oilcloth,

ELMIRA, N. Y.

1	All industries	539	940,702	6,895,180	538,070
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	21	21,355	23,070	3,021
3	Boots and shoes, custom work and repairing	27	20,000	9,688	2,246
4	Boots and shoes, factory product	3	10,770	522,726	20,347
5	Bottling. (See also Liquors, malt; Mineral and soda waters.)	5	5,000	55,747	9,499
6	Bread and other bakery products	13	18,975	81,886	4,827
7	Bridges	3		279,700	6,708
8	Carpentering	34	12,785	133,049	35,627
9	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	6	13,500	21,250	3,209
10	Cheese and butter, urban dairy product	5	10,000	14,285	1,303
11	Clothing, men's, custom work and repairing	29	109,585	157,060	11,451
12	Clothing, women's, dressmaking	97	115,870	51,208	10,711
13	Confectionery	7	17,400	8,675	2,194
14	Cooperage	4	2,655	8,188	290
15	Dentistry, mechanical	5	9,875	5,468	1,236
16	Dyeing and cleaning	4	7,885	8,925	1,869

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

DULUTH, MINN.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
19	\$10,404	7	\$3,202	12	\$7,202	-----	-----	\$13,250	\$30,277
85	64,532	21	17,531	64	47,001	-----	-----	208,776	339,152
58	37,336	13	12,696	38	19,216	7	\$5,424	38,206	101,800
17	9,063	7	3,586	10	6,377	-----	-----	3,753	25,191
1,337	609,309	71	62,843	1,205	636,326	1	200	3,011,096	4,142,875

and gunsmithing, 1; looking-glass and picture frames, 1; marble and stone work, 2; mattresses and spring beds, 1; monuments and tombstones, 1; patent medicines and compounds, 1; paving and paving materials, 2; roofing and roofing materials, 1; shipbuilding, 2; shirts, 1; show cases, 1; taxidermy, 1; trunks and valises, 2.

ELIZABETH, N. J.

6,561	3,727,972	293	376,624	5,937	3,221,737	331	120,611	4,511,626	10,489,364	1
24	10,866	9	9,900	14	9,550	1	416	6,651	29,875	2
22	10,987	6	3,950	12	5,676	4	1,361	6,010	19,515	3
53	93,130	15	14,696	38	18,434	-----	-----	70,550	120,000	4
158	131,253	20	31,215	138	100,038	-----	-----	123,720	286,220	5
45	34,040	8	9,780	37	24,269	-----	-----	41,760	81,025	6
53	31,840	13	11,970	20	9,870	20	10,000	21,240	65,200	7
40	13,182	6	3,272	34	9,910	-----	-----	13,025	30,500	8
13	8,024	4	3,424	9	4,600	-----	-----	6,795	18,225	0
662	404,170	35	65,080	581	373,428	46	25,068	571,890	1,445,403	10
47	33,830	3	4,500	44	20,330	-----	-----	73,740	122,200	11
60	48,067	6	9,333	54	39,634	-----	-----	46,808	106,000	12
21	9,802	9	5,600	12	4,292	-----	-----	5,000	18,500	13
9	4,919	1	690	8	4,229	-----	-----	7,200	16,200	14
94	85,087	8	17,775	86	67,312	-----	-----	50,500	160,000	15
92	67,324	15	10,330	77	50,934	-----	-----	75,210	163,500	16
36	20,262	6	5,750	30	14,512	-----	-----	17,900	42,500	17
78	55,444	10	16,300	55	20,064	13	9,180	18,220	87,892	18
37	23,848	11	9,150	12	6,150	14	8,548	27,100	66,890	19
5,017	2,631,802	108	137,900	4,076	2,419,545	233	74,438	3,327,407	7,609,179	20

enamored, 2; petroleum, refining, 1; photography, 2; plastering and stuccowork, 1; plumbers' supplies, 1; roofing and roofing materials, 2; rubber and elastic goods, 1; saddlery and harness, 2; sewing machines and attachments, 1; ship building, 2; shirts, 2; slaughtering, wholesale, not including meat packing, 1; steam fittings and heating apparatus, 1; tinsmithing, copper-smithing, and sheet-iron working, 2; tools, not elsewhere specified, 1; toys and games, 1; watch, clock, and jewelry repairing, 1; wood, turned and carved, 1.

ELMIRA, N. Y.

5,171	2,504,606	830	630,041	3,572	1,501,992	760	282,573	4,593,241	8,814,936	1
46	21,723	22	12,580	24	9,143	-----	-----	9,789	40,479	2
44	18,507	26	14,520	10	2,729	5	1,348	7,536	30,824	3
301	127,411	19	15,671	133	58,546	149	53,194	305,182	498,790	4
27	11,883	4	2,784	23	9,099	-----	-----	61,480	97,874	5
43	21,502	17	9,774	26	11,728	-----	-----	42,246	80,200	6
116	54,070	11	11,280	105	42,780	-----	-----	225,570	310,064	7
324	187,532	42	83,438	250	138,051	32	16,043	217,423	494,487	8
30	18,002	8	5,132	22	12,870	-----	-----	21,703	50,119	9
15	5,059	6	3,029	9	2,630	-----	-----	14,244	24,101	10
224	99,188	39	32,770	36	15,610	140	50,808	119,844	238,890	11
304	82,463	103	52,251	196	29,622	5	590	257,946	370,552	12
19	6,080	12	3,856	7	2,224	-----	-----	16,403	28,390	13
8	2,560	4	1,210	3	1,250	1	100	1,680	4,800	14
9	5,920	6	5,400	3	520	-----	-----	1,929	12,600	15
23	6,593	4	3,275	19	3,318	-----	-----	6,850	16,967	16

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ELMIRA, N. Y.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
17	Flouring and grist mill products .	3	\$6,250	\$118,100	\$4,748
18	Foundry and machine shop products. (See also Steam fittings and heating apparatus.)	6	9,800	506,767	55,027
19	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	12	20,382	25,653	2,601
20	Lock and gunsmithing .	3	5,610	2,432	663
21	Looking-glass and picture frames .	3	5,865	15,416	1,083
22	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing; Lumber and other mill products from logs or bolts; Wood, turned and carved.)	6	23,500	815,136	26,310
23	Marble and stone work. (See also Monuments and tombstones.)	3	2,800	25,513	2,259
24	Masonry, brick and stone. (See also Plastering and stuccowork.)	26	4,400	150,395	12,171
25	Mattresses and spring beds. (See also Furniture; Wirework, including wire rope and cable.)	3	8,700	11,150	1,424
26	Millinery, custom work .	15	44,560	65,175	5,603
27	Mineral and soda waters. (See also Bottling.)	3	5,800	6,477	1,244
28	Monuments and tombstones. (See also Marble and stone work.)	4	2,810	29,875	540
29	Painting and paper hanging .	28	21,825	49,415	6,208
30	Photography .	10	25,155	35,316	4,402
31	Plumbing and gas fitting .	6	38,180	71,200	5,949
32	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	5	13,470	17,980	2,310
33	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	6	27,530	273,685	57,120
34	Roofing and roofing materials. (See also Tinsmithing, coppersmithing, and sheet-iron working.)	3	2,345	16,110	1,017
35	Saddlery and harness .	7	17,365	66,086	5,320
36	Tinsmithing, coppersmithing, and sheet-iron working. (See also Roofing and roofing materials.)	13	30,375	78,008	6,416
37	Tobacco, cigars and cigarettes. (See also Tobacco, chewing, smoking, and snuff.)	26	27,515	74,956	14,806
38	Watch, clock, and jewelry repairing .	14	27,300	14,350	2,874
39	All other industries (a) .	71	199,520	3,098,046	203,068

a Embraces agricultural implements, 1; awnings, tents, and sails, 1; bookbinding and blank-book making, 1; boot and shoe uppers, 1; boxes, cigar, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2; brassware, 1; brick and tile, 2; brooms and brushes, 2; carpets, wood, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 2; chemicals, 1; clay and pottery products, 2; clothing, men's, factory product, 2; collars and burial cases, trimming and finishing, 1; electrical apparatus and supplies, 1; electric light and power, 2; fancy articles, not elsewhere specified, 1; gas, illuminating and heating, 1; glue, 1; grease and tallow, 2; hardware, 1; hats and caps, not including wool hats, 1; hosiery and knit goods, 1; iron and steel, 2; leather, tanned and curried, 2; lime and cement, 1; liquors, malt, 2; lumber

ERIE, PA.

1	All industries .	236	563,811	12,812,594	718,157
2	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	11	10,825	14,045	1,551
3	Boots and shoes, custom work and repairing .	20	18,400	87,235	1,508
4	Bottling. (See also Liquors, malt.)	6	4,220	42,250	7,381
5	Bread and other bakery products .	7	6,500	133,025	10,004
6	Brick and tile .	3	27,500	50,800	5,215
7	Carpentering .	3	4,440	18,415	3,875
8	Clothing, men's, custom work and repairing .	17	37,444	131,008	4,902
9	Clothing, women's, dressmaking .	7	9,820	11,175	1,034
10	Cooperage .	4	150	12,910	430
11	Flouring and grist mill products .	5	5,550	413,413	25,343
12	Foundry and machine shop products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	24	77,555	4,571,459	158,955
13	Liquors, malt. (See also Bottling.)	4	-----	405,646	69,598
14	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing.)	8	11,820	703,095	31,680
15	Masonry, brick and stone. (See also Plastering and stuccowork.)	3	1,200	13,050	2,736
16	Millinery, custom work .	3	3,330	24,850	700
17	Painting and paper hanging .	10	80,715	27,085	2,748
18	Photography .	4	10,250	14,490	1,084
19	Plastering and stuccowork. (See also Masonry, brick and stone.)	5	1,200	16,312	290
20	Plumbing and gas fitting .	5	13,250	48,102	1,300
21	Printing and publishing, book and job .	3	24,000	101,436	3,644

OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ELMIRA, N. Y.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.								Cost of materials used.	Value of products, including receipts from custom work and repairing.		
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.					
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.				
25	\$14,420	7	\$5,016	18	\$8,804	.....	.....	\$287,054	\$325,373
278	165,718	28	33,028	248	132,090	.....	.....	113,307	888,913
36	18,804	15	10,490	14	4,724	7	\$3,590	38,983	66,191		
4	1,600	3	1,350	1	250	.....	.....	422	2,614
13	8,127	6	4,074	7	4,053	.....	.....	17,500	28,702
388	107,742	35	33,992	268	116,223	35	17,527	490,329	800,526		
20	17,271	6	4,250	20	13,021	.....	.....	15,531	49,333
401	289,380	37	43,810	348	184,814	16	10,706	280,404	573,393		
27	8,098	3	2,080	14	3,018	10	3,000	21,654	45,920		
79	26,102	28	15,650	50	10,432	1	20	65,612	114,436		
8	3,424	3	1,336	5	2,088	.....	.....	3,767	14,387
21	10,456	4	2,750	17	7,706	.....	.....	28,728	60,075
181	60,693	30	18,661	101	42,032	.....	.....	42,767	131,375
37	26,189	16	16,136	18	9,933	9	720	9,510	58,544		
72	37,552	14	11,869	57	25,533	1	150	77,988	133,800		
25	11,041	6	4,160	17	6,681	2	200	5,081	22,284		
160	105,203	22	20,402	92	51,097	55	33,704	69,984	310,985		
15	8,150	3	2,000	12	6,150	.....	.....	22,178	36,798
108	43,677	12	9,176	86	31,381	10	3,120	41,607	95,331		
88	45,252	29	16,806	55	26,466	4	1,920	48,374	115,704		
127	51,200	33	18,634	31	7,406	63	25,160	37,728	125,585		
31	16,453	18	10,184	13	6,269	.....	.....	3,175	24,473
1,581	748,921	155	136,557	1,214	551,691	212	60,073	1,581,737	3,032,834		

and other mill products from logs or bolts, 2; malt, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; patent medicines and compounds, 1; perfumery and cosmetics, 2; plastering and stuccowork, 1; pumps, not including steam pumps, 1; saws, 1; sewing machine repairing, 1; shirts, 2; soap and candles, 2; sporting goods, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; tobacco, chewing, smoking, and snuff, 1; umbrellas and canes, 1; vinegar and cider, 1; washing machines and clothes wringers, 1; window shades, 1; wirework, 1; including wire rope and cable, 2; wood, turned and carved, 2; woolen goods, 1.

ERIE, PA.

7,029	3,828,438	566	580,072	5,418	2,735,585	1,045	512,781	6,145,080	12,765,768	1
27	16,079	14	9,900	12	5,679	1	500	8,675	29,550	2
27	12,856	10	3,952	16	8,488	1	416	8,884	28,515	3
30	19,406	6	6,200	24	13,266	.....	.....	54,315	98,020	4
82	95,516	14	10,596	48	21,230	20	3,640	133,700	207,700	5
90	30,181	.....	.....	73	23,237	17	6,944	9,755	53,950	6
26	16,855	5	4,221	21	12,634	.....	.....	21,429	59,380	7
107	68,896	17	16,524	8	3,112	82	49,260	57,150	155,420	8
30	5,204	6	2,080	24	3,184	.....	.....	395	9,531	9
21	0,144	4	1,060	17	7,184	.....	.....	13,405	24,234	10
72	48,537	19	20,360	53	28,177	.....	.....	858,102	989,897	11
2,304	1,466,458	115	148,354	1,846	1,057,702	433	260,402	1,925,526	4,310,183	12
73	54,016	11	14,760	62	39,256	.....	.....	173,540	346,449	13
365	197,983	28	26,118	337	171,885	.....	.....	456,391	740,765	14
71	29,400	6	7,900	65	21,500	.....	.....	50,700	88,000	15
11	4,564	3	1,540	8	3,024	.....	.....	7,300	20,500	16
66	40,118	11	7,835	46	28,283	9	4,000	19,293	73,800	17
10	6,644	4	3,684	5	2,720	1	240	3,018	15,000	18
35	20,820	4	2,204	31	18,016	.....	.....	10,200	34,500	19
50	31,261	12	7,992	38	23,269	.....	.....	32,778	71,712	20
69	30,786	8	8,224	61	22,582	.....	.....	37,706	109,423	21

TABLE 2.—MANUFACTURES IN 165 CITIES HAVING A POPULATION
ERIE, PA.—Continued.

	MECHANICAL AND MANUFACTURING INDUSTRIES.	Number of establish- ments report- ing.	CAPITAL.		Miscellane- ous expenses.
			Value of hired prop- erty.	Direct investment.	
22	Printing and publishing, newspapers and periodicals	10	\$111,440	\$107,416	\$28,797
23	Saddlery and harness	7	7,420	36,351	1,421
24	Tinsmithing, coppersmithing, and sheet-iron working	6	5,200	52,727	1,065
25	Tobacco, cigars and cigarettes	14	12,550	62,348	10,926
26	All other industries (a)	47	134,032	5,705,051	341,344

a Embraces belting and hose, rubber, 2; boxes, wooden packing, 1; brass castings and brass finishing, 1; carriage and wagon materials, 1; carriages and sleds, children's, 1; carriages and wagons, including custom work and repairing, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; clothing, men's, factory product, 2; coffins, burial cases, and undertakers' goods, 1; electropatenting, 1; furniture, factory product, 1; gas, illuminating and heating, 1; hosiery and knit goods, 1; iron and steel, forgings, 1;

EVANSVILLE, IND.

1	All industries (a)	482	1,041,765	9,166,850	804,871
2	Agricultural implements	4	46,600	209,216	27,159
3	Baking and yeast powders	3	1,750	970	300
4	Blacksmithing and wheelwrighting. (See also Carriages and wagons, including custom work and repairing.)	24	11,500	24,076	2,385
5	Boots and shoes, custom work and repairing	32	24,750	20,366	4,780
6	Bread and other bakery products	21	32,760	38,578	6,322
7	Brick and tile. (See also Clay and pottery products.)	11	—	111,300	5,417
8	Brooms and brushes	5	7,500	30,455	2,822
9	Carpentering	15	1,575	65,875	54,378
10	Carpets, rag	3	3,125	415	322
11	Carriages and wagons, including custom work and repairing. (See also Blacksmithing and wheelwrighting.)	11	67,375	233,430	14,321
12	Clothing, men's, custom work and repairing	25	62,970	81,030	12,252
13	Clothing, men's, factory product	3	19,200	374,202	84,052
14	Clothing, women's, dressmaking	15	24,350	15,810	3,122
15	Coffee and spice, roasting and grinding	3	3,000	42,500	2,190
16	Coffins and burial cases, trimming and finishing	3	—	6,045	422
17	Confectionery	8	23,400	52,200	4,507
18	Cooperage	10	6,455	45,405	2,783
19	Cutlery and edge tools	3	4,175	87,150	6,910
20	Flouring and grist mill products	11	20,000	474,200	49,366
21	Foundry and machine shops products. (See also Ironwork, architectural and ornamental; Steam fittings and heating apparatus.)	13	40,430	950,921	34,829
22	Furniture, cabinetmaking, repairing and upholstering. (See also Mattresses and spring beds.)	4	2,750	6,125	1,080
23	Furniture, factory product. (See also Furniture, chairs.)	9	72,200	594,045	39,123
24	Ironwork, architectural and ornamental. (See also Foundry and machine shop products.)	3	1,200	105,830	1,400
25	Liquors, malt. (See also Bottling.)	3	50,210	429,600	140,814
26	Lock and gun smithing	3	3,410	16,075	926
27	Lumber and other mill products from logs or bolts	11	58,000	1,539,250	62,964
28	Lumber, planing mill products, including sash, doors, and blinds. (See also Boxes, wooden packing.)	9	11,375	303,252	20,090
29	Marble and stone work. (See also Monuments and tombstones.)	3	2,000	23,725	1,211
30	Masonry, brick and stone	13	750	62,850	4,478
31	Millinery, custom work	14	51,925	20,780	5,712
32	Mineral and soda waters. (See also Bottling.)	3	8,100	27,600	3,175
33	Monuments and tombstones. (See also Marble and stone work.)	3	730	15,625	335
34	Painting and paper hanging	18	12,250	59,400	4,202
35	Photography	8	13,000	17,455	4,486
36	Plumbing and gas fitting	5	18,750	22,290	2,432
37	Printing and publishing, book and job. (See also Bookbinding and blank-book making.)	7	23,500	80,901	4,409
38	Printing and publishing, newspapers and periodicals. (See also Bookbinding and blank-book making.)	10	46,000	72,175	19,709

a Includes a return from a manufacturer of "Timber products, not manufactured at mill" having an office in Evansville. This industry is reported as of the place where the office of the establishment is located, because it is not practicable to exactly

MANUFACTURES.

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OF 20,000 AND OVER, BY SPECIFIED INDUSTRIES: 1890—Continued.

ERIE, PA.—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
Aggregates.		Officers, firm members, and clerks.		Operatives, skilled and unskilled.		Pieceworkers.		Cost of materials used.	Value of products, including receipts from custom work and repairing.
Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.		
219	\$100,942	30	\$25,119	153	\$55,702	36	\$20,121	\$40,090	\$210,648 22
19	12,304	6	4,352	11	6,704	2	1,248	10,758	31,081 23
38	23,886	8	5,224	30	18,662			27,324	59,800 24
87	40,911	16	9,081	15	2,816	56	28,114	35,351	105,320 25
3,010	1,505,561	209	230,992	2,414	1,186,063	387	137,896	2,149,894	4,392,564 26

ironwork, architectural and ornamental, 2; leather, tanned and curried, 2; lime and cement, 1; lock and gunsmithing, 2; malt, 1; marble and stone work, 1; matches, 1; monuments and tombstones, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paints, 1; paper, 1; paving and paving materials, 1; plumbers' supplies, 1; pumps, not including steam pumps, 2; shipbuilding, 1; show cases, 1; soap and candles, 1; springs, steel, ear and carriage, 1; steam fittings and heating apparatus, 2; tools, not elsewhere specified, 1; washing machines and clothes wringers, 2.

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7,435	3,197,928	620	533,181	5,587	2,187,026	1,228	477,171	6,875,575	12,800,834	1
157	72,604	18	18,400	136	52,604	3	1,600	91,281	257,445	2
4	1,100	2	930	2	260			1,950	4,150	3
31	12,943	7	3,872	23	9,406	1	75	10,072	39,020	4
46	19,167	18	8,439	12	4,472	16	6,236	15,767	51,436	5
72	25,072	11	5,025	61	19,447			74,344	150,911	6
155	37,695	8	3,140	147	34,555			9,222	78,700	7
76	24,492	7	2,820	69	21,672			62,380	103,000	8
157	90,155	10	14,855	141	75,300			108,340	271,200	9
3	875	2	475	1	200			610	2,084	10
138	71,875	19	19,020	118	52,202	1	658	100,322	215,775	11
122	64,852	6	4,524	12	8,200	104	52,128	77,050	191,150	12
360	112,532	20	15,360	24	9,947	325	87,225	308,238	658,350	13
137	24,986	14	6,024	62	10,862	61	8,100	14,850	47,744	14
13	9,320	6	6,000	6	3,120	1	290	106,760	129,000	15
6	4,786	3	3,020	3	1,716			13,250	20,850	16
40	18,614	7	3,000	33	10,014			45,503	78,110	17
114	35,646	5	2,644	5	2,132	104	30,870	58,762	108,250	18
63	31,032	4	1,950	33	15,330	26	14,352	10,402	59,005	19
106	85,632	30	80,070	136	55,582			1,003,656	1,841,029	20
662	359,432	66	69,004	432	204,573	104	85,855	286,892	939,989	21
21	9,036	5	3,036	16	6,000			6,750	18,950	22
656	273,203	36	32,410	571	216,753	49	24,100	350,374	790,380	23
62	25,544	8	5,400	54	20,144			41,063	111,095	24
158	117,578	15	35,200	143	82,378			101,777	520,000	25
4	1,345	3	825	1	520			720	3,200	26
630	303,234	22	23,100	588	266,184	20	14,000	905,952	1,509,885	27
243	130,038	26	22,230	217	107,808			293,279	538,050	28
37	19,200	5	4,360	32	14,900			30,090	53,700	29
206	116,175	13	14,750	103	101,425			138,050	271,400	30
59	12,713	2	700	57	12,013			53,700	81,700	31
24	10,132	4	3,248	20	6,884			9,612	33,140	32
28	18,250	7	5,500	21	12,750			25,200	53,500	33
149	72,818	17	12,898	85	41,520	47	18,400	42,301	136,700	34
20	12,178	9	7,386	10	4,212	1	600	5,270	25,200	35
33	19,258	1	900	87	18,368			34,850	48,000	36
50	20,899	3	3,600	46	17,224	1	75	19,455	57,034	37
173	113,004	17	17,642	119	67,672	87	27,750	40,326	101,002	38

locate its operations within the limits of a county or municipality. The data are included in "All other industries" in order that the operations of individual establishments may not be disclosed.